## Field Test in Santa Cruz Volume 2 Figures

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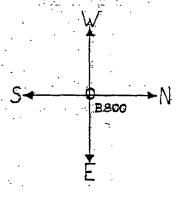
# FIELD TEST OF THE LINS METHOD FOR THE RECOVERY OF OIL FROM TAR SAND

Volume 2

**Figures** 

SANTA CRUZ, CALIFORNIA

#### TAR CONTENTS:



HOLE POSITION IN FT FROM B800 IN L8. SCALE: I" = 50:

TAR CONTENTS IN % BY VEIGHT OF BRY
TARSAND FROM 10-15 FT, 15-40 FT AND
40-45 FT, WRITTEN ABOVE THE HOLE
POSITION.

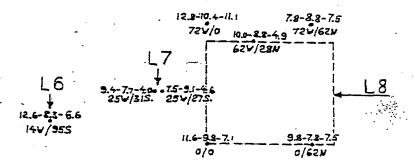
2.4-50-7.4 3004/200N

121-64-7.2 2621/0

### 1290/555. | 1290/555. | 1290/550 | 1210/40M | 1210/40M | 1210/50M | 1210/

200 W/200 M

7. +- 9.9-0 100w/200N

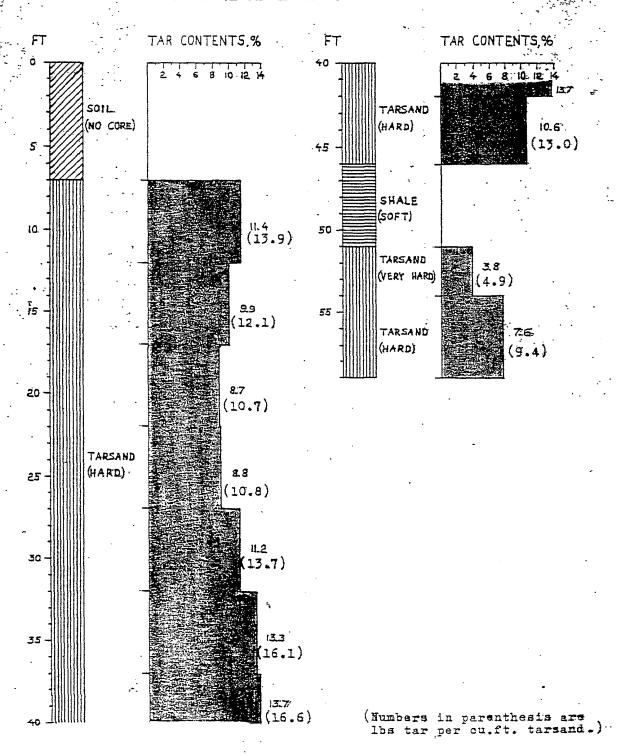


2-7.6-2.6 0/200 N

L9-200:

Figure 2

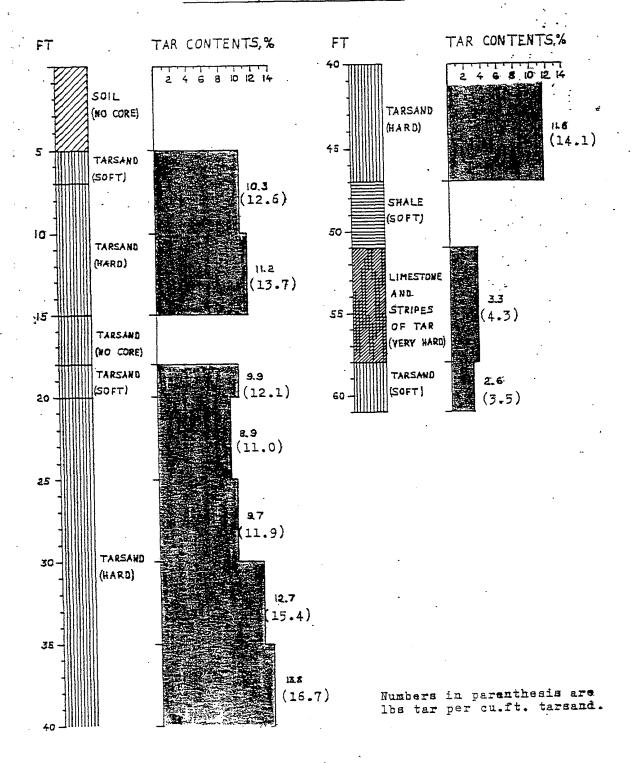
## WELL' LOG. 121W/40 N. (B2-5).



L9-201 AUG 30.1957: &&

Figure 3

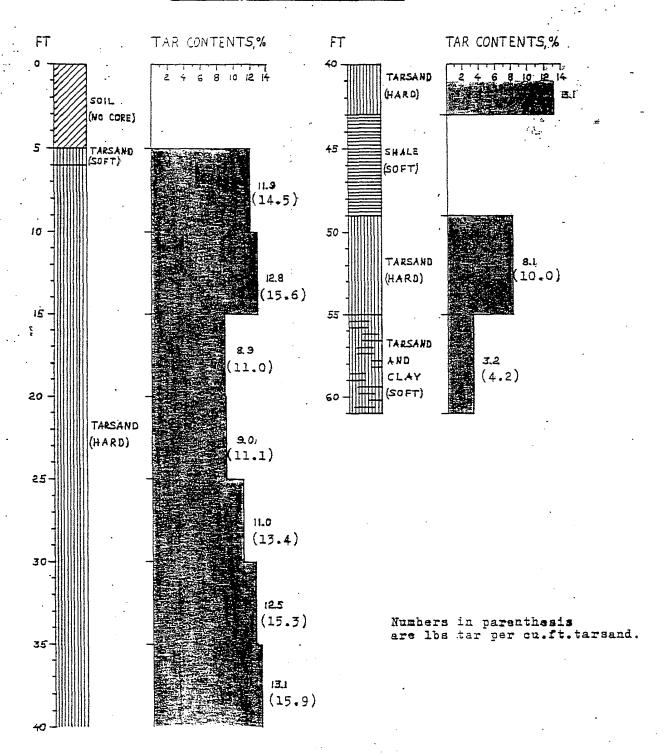
#### WELL LOG. 29 W/5 N. (B3-2)



L9-202. AUG.30.1957. &\$

Figure 4

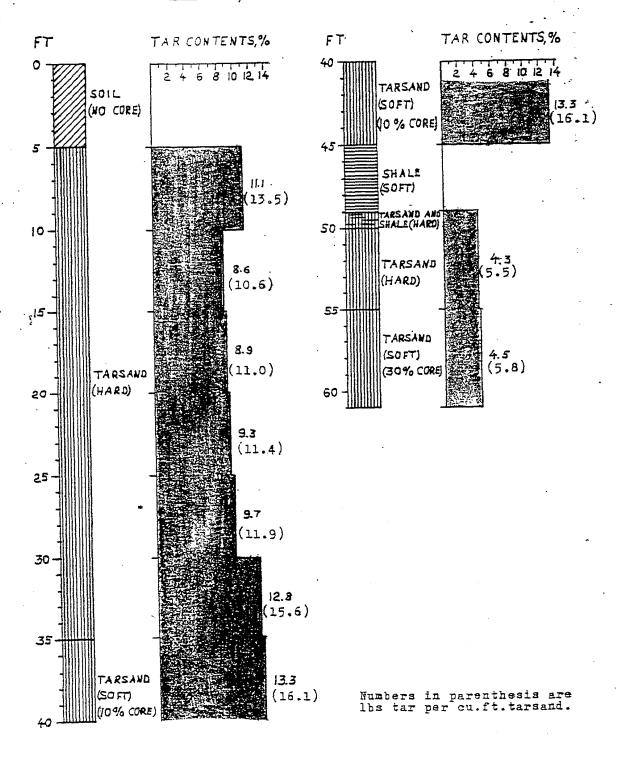
#### <u>WELL LOG.</u> 129 <u>W/75 N. (B3-9)</u>



L9-203. AUG.30.1957.83

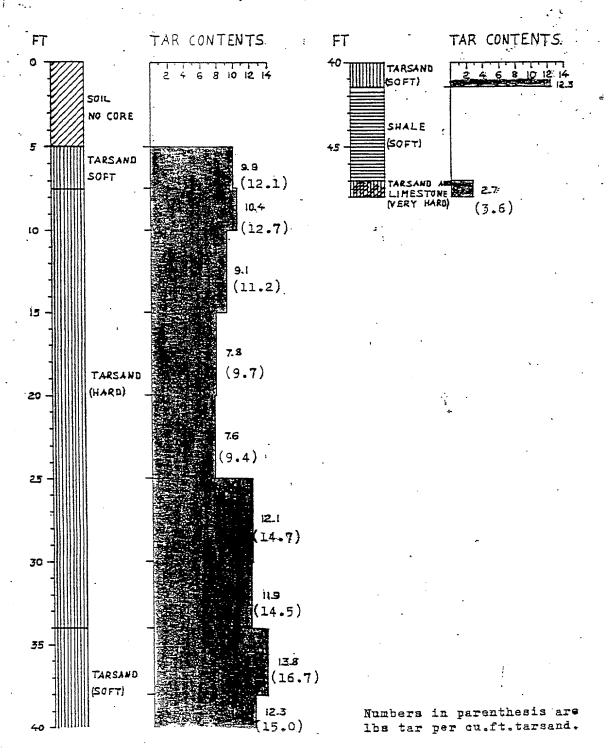
Figure 5

#### WELL LOG 138 W/40 N. (B4-5.)



L9-212 OCT 18.1957.8%

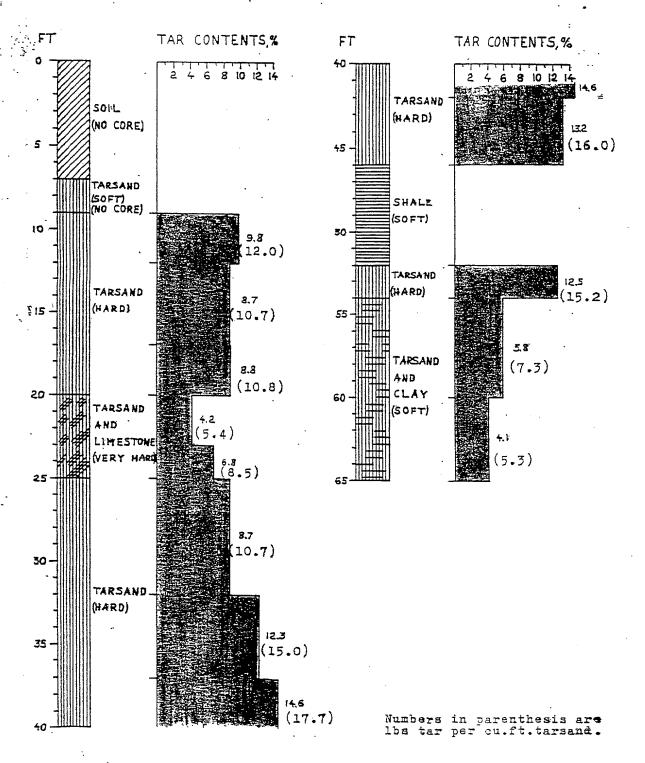
#### <u>WELL LOG.</u> 147 W/45 N (B 5-6)



L9-204 Figure 7 1957.MAY 2. 85 L LOG. 162W/O. (T61.) FT TAR CONTENTS, % FT TAR CONTENTS % 40 -2 4 6 8 10 12 14 TARSAND (HARD) SOIL (NO CORE) SHALE A. CLAY TARSAND (SOFT. 10% CORE REC.) 50 (10 % CORE RECOVERED) 10.4 (12.7)TARSAND A 7.7 (HARD) (9.5)NO CORE LIMESTONE 5.6 (7.1)20 NO CORE TARSANDA. 5.3 25 % CORE (6.7) RECOVERED) TARSAND A 65 LIMEST (HARD) 10.7 (13.1)30 125 (15.3) TARSAND -(HARD) 35 14.6 (17.7)Numbers in parenthesis (16.5)are lbs tar per cu.ft. tarsand.

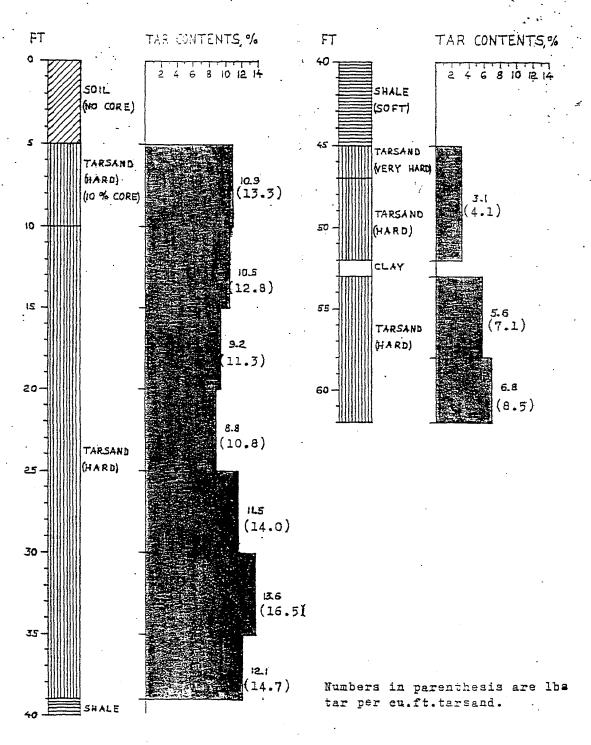
L9-205 OCT.18.1957.&R

## <u>WELL LOG.</u> 155 W/10 N. (B6-2.)



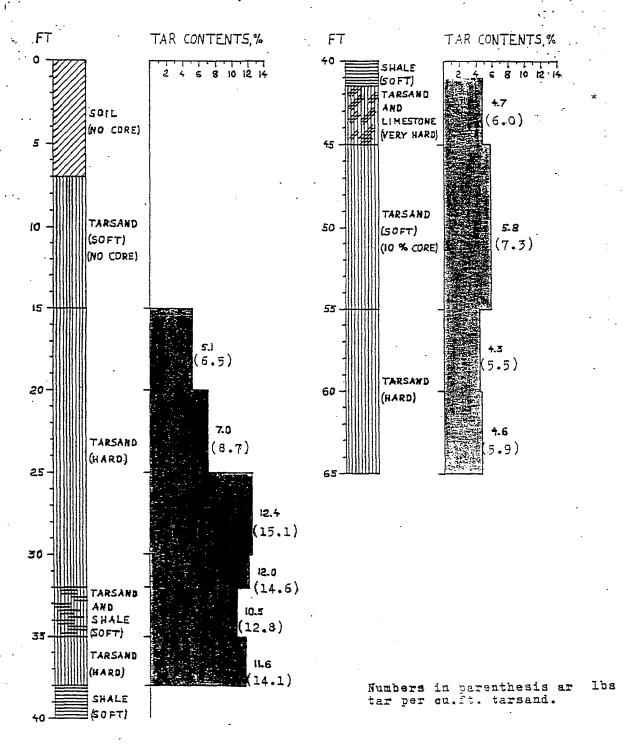
L9-206. AUG.30.1957. &&

#### <u>WELL LOG.</u> 155 W/80 N. (B6-9.)



L9-207. AUG.30.1957:&&

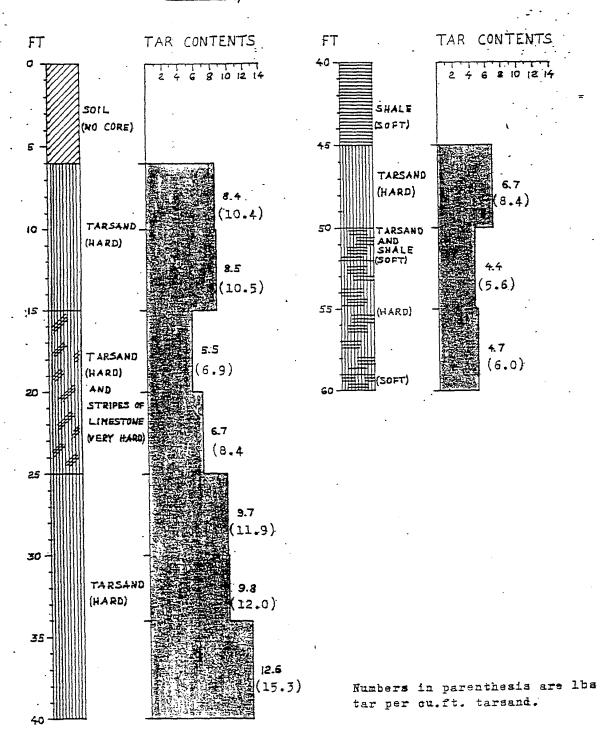
#### WELL LOG. 173 W/40 N. (B8-5)



L9-211. OCT.18.1957: &&

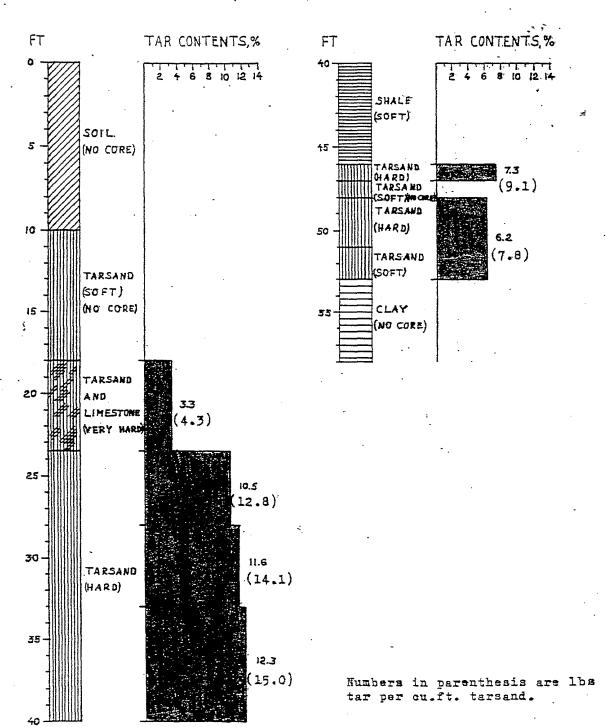
Figure 11

### <u>WELL LOG.</u> 173 W/50 N. (B8-6)



L9-208. 0CT.18.1957.&&

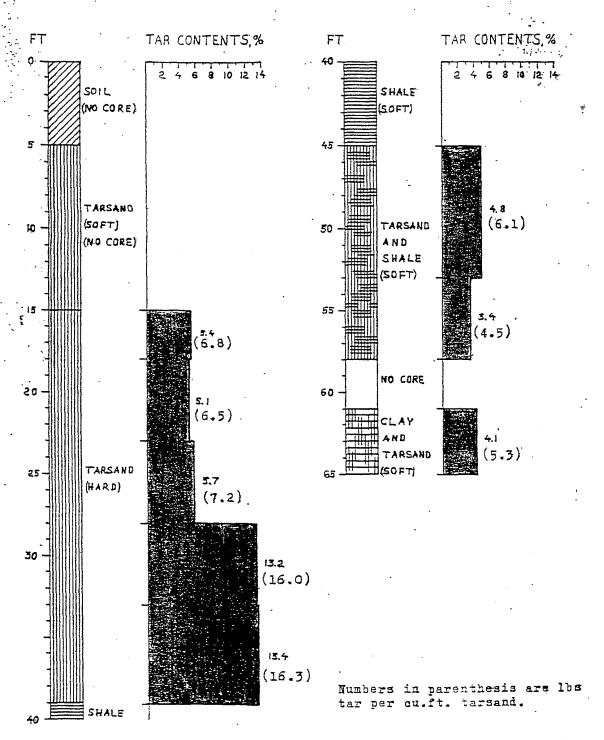
#### <u>WELL LOG.</u> 181 W/ 5 N. (B9-2)

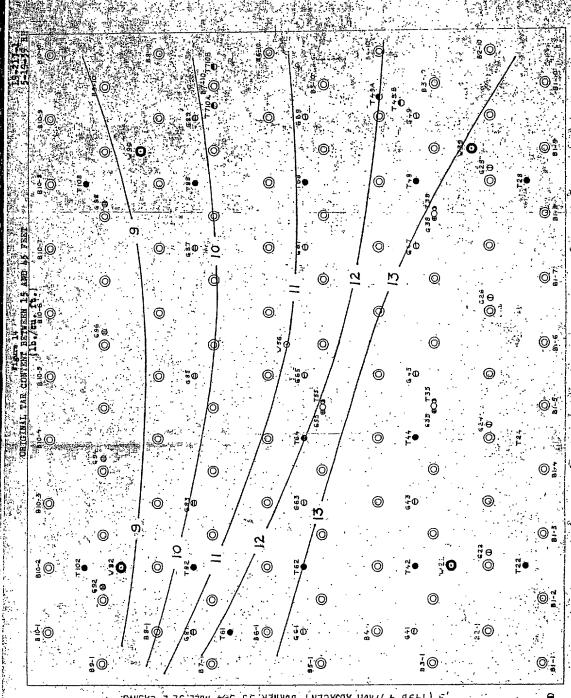


L9-209 OCT.18.1957. &&

Figure 13

#### WELL LOG. 181 W/75 N. (B9-9)

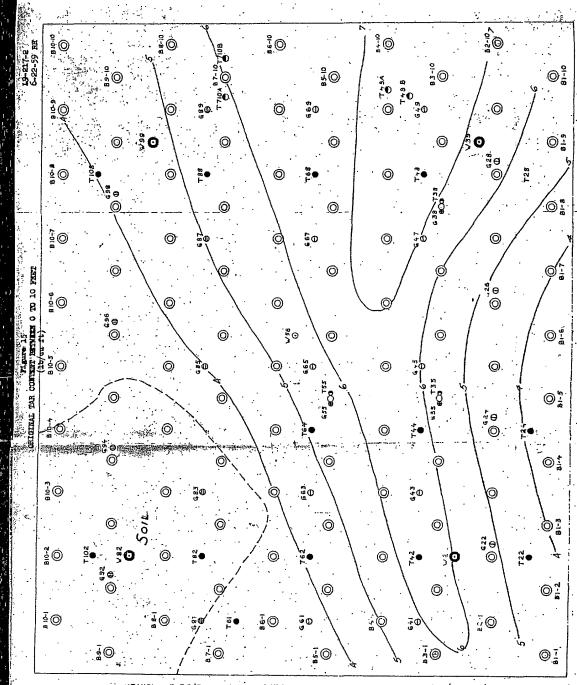




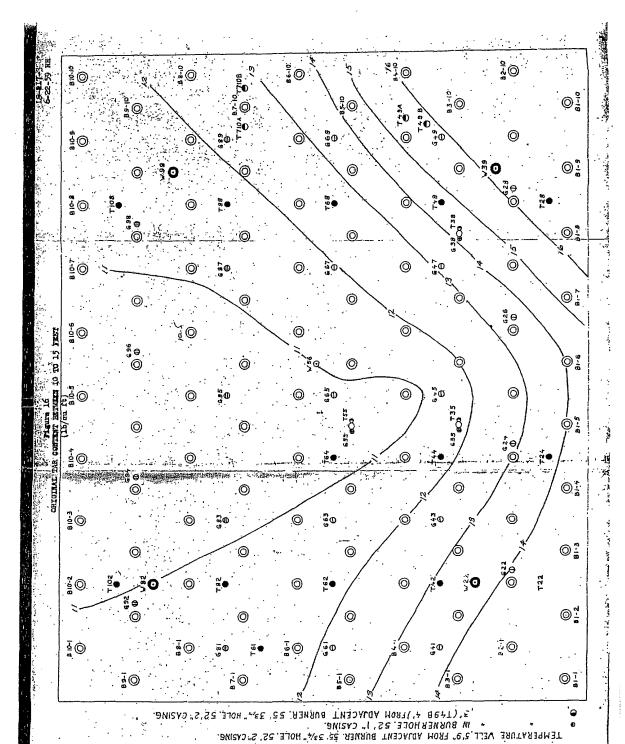
'3,(1438 4,)LUON VOTYCENT BURNER 22, 334, HOTE 25,5 CYZING

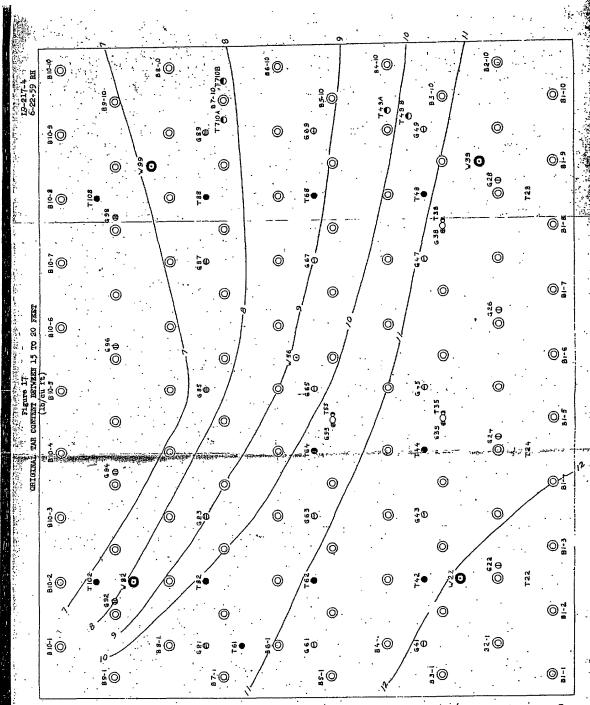
■ IN BURNER HOTE 25, 1. CYZING

LEMBERATURE VELLS FROM ADJACENT BURNER 55 34, HOTE 52 2 CASING



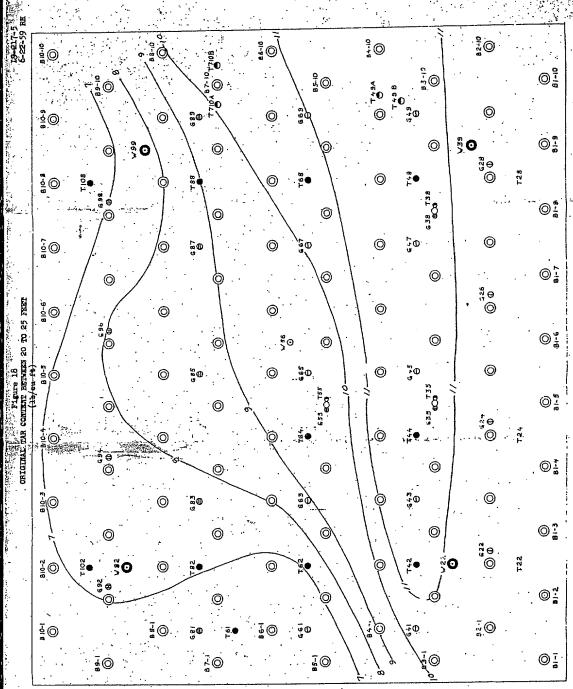
TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 33," HOLE, 52'2" CASING.





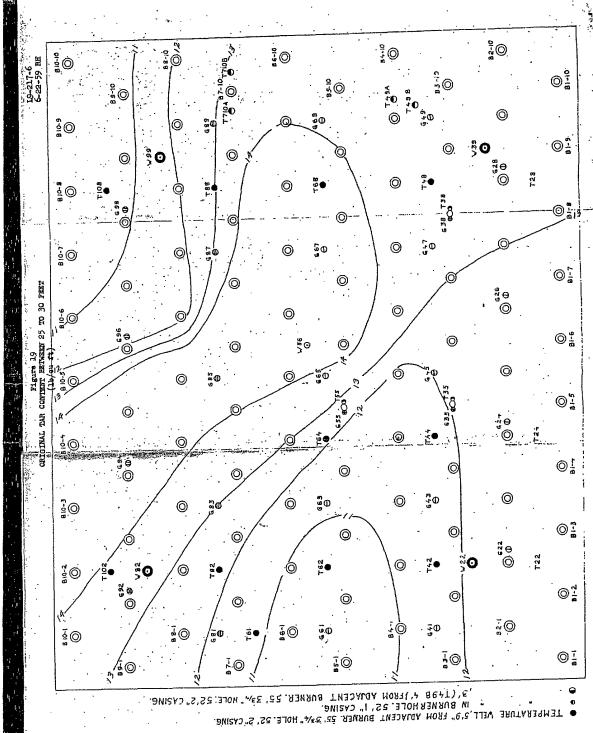
TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 334" HOLE, 52' 2' CASING.

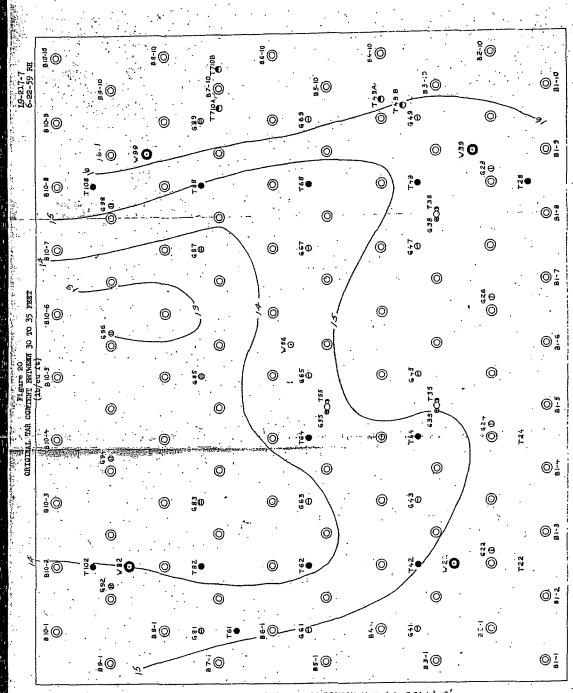
TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 334" HOLE, 52' 2" CASING.



TEMPERATURE VELL, S'9" FROM ADJACENT BURNER, 55' 33/, HOLE: 52'2" CASING.

TEMPERATURE VELL, S'9" FROM ADJACENT BURNER, 55" 35/, HOLE: 52' 2" CASING.

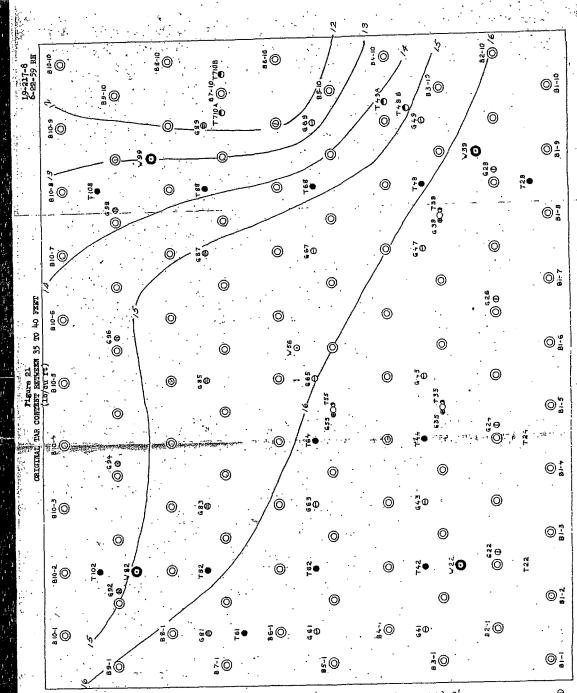




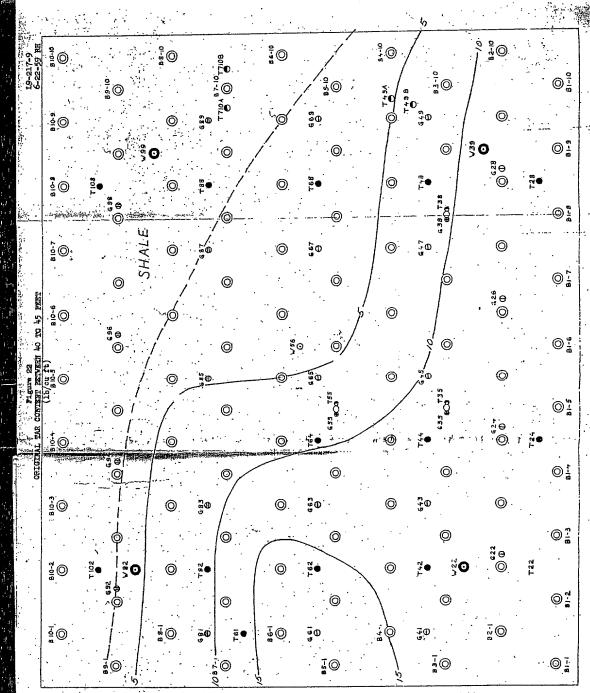
TEMPERATURE VELL,5" FROM ADJACENT BURNER, 55' 33%" HOLE, 52'2" CASING.

" IN BURNER HOLE, 52' 1" CASING.

" 3' (T+98 4') FROM ADJACENT BURNER, 55' 354" HOLE, 52' 2" CASING.

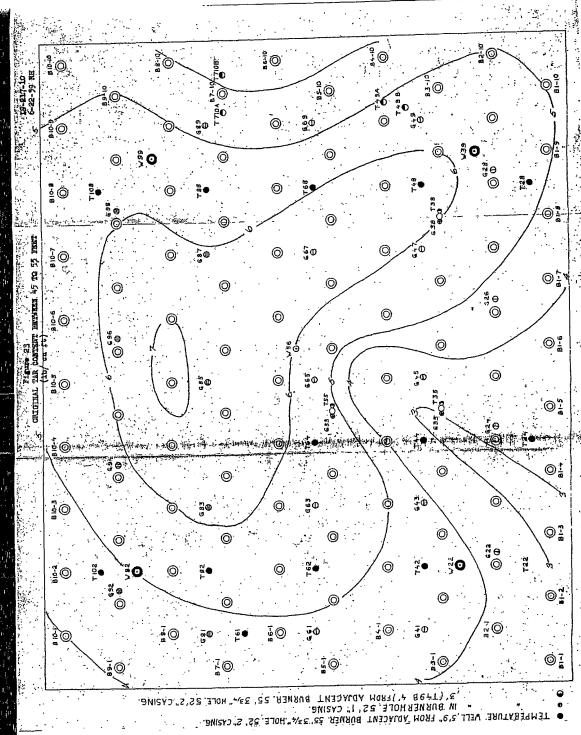


TEMPERATURE VELL 5'9" FROM ADJACENT BURNER: 55' 33" HOLE 52'2" CASING. , W BURNER HOLE 52'1" CASING. , 3'(T49B 4')FROM ADJACENT BURNER 55' 33, HOLE 52'2" CASING.



■ LEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 334" HOLE, 52'2" CASING.

TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 334" HOLE, 52'2" CASING.



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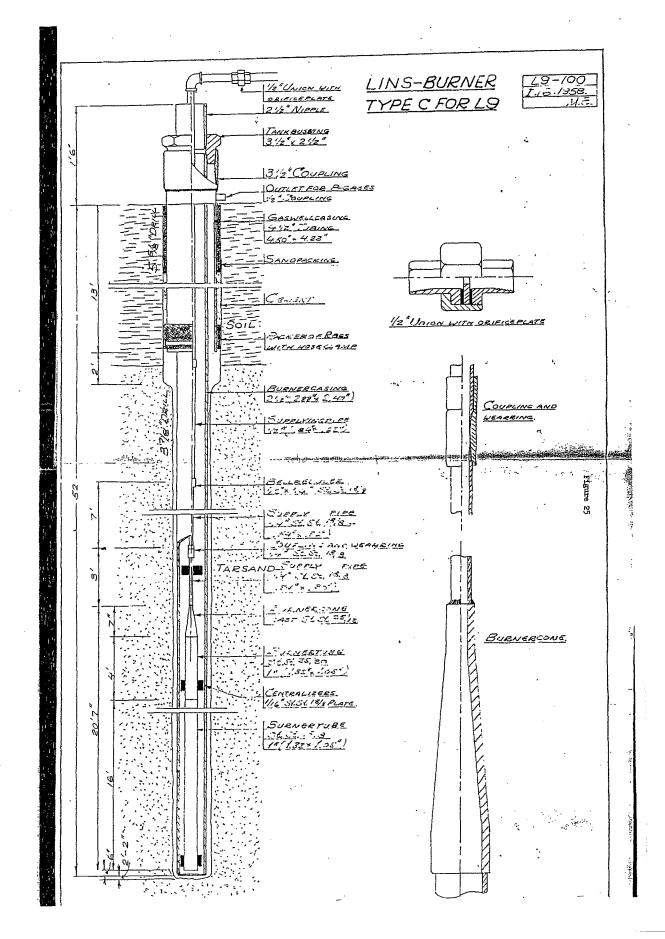
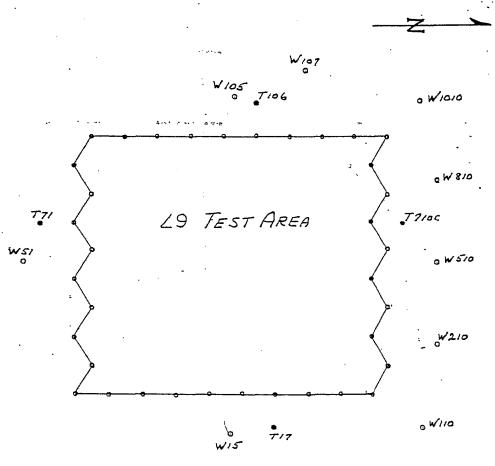


Figure 27

#### WATER WELLS AND TEMPERATURE WELLS OUTSIDE L9.



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#### Locations

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L 9-102 JAN 24 1958.85

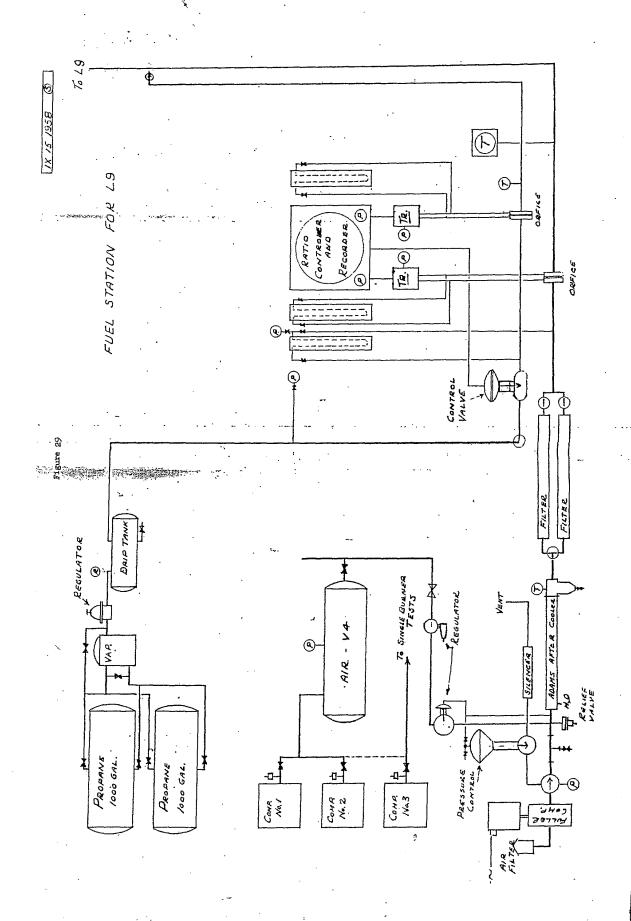
F-, P- AND R- LINES OF TEST L9.

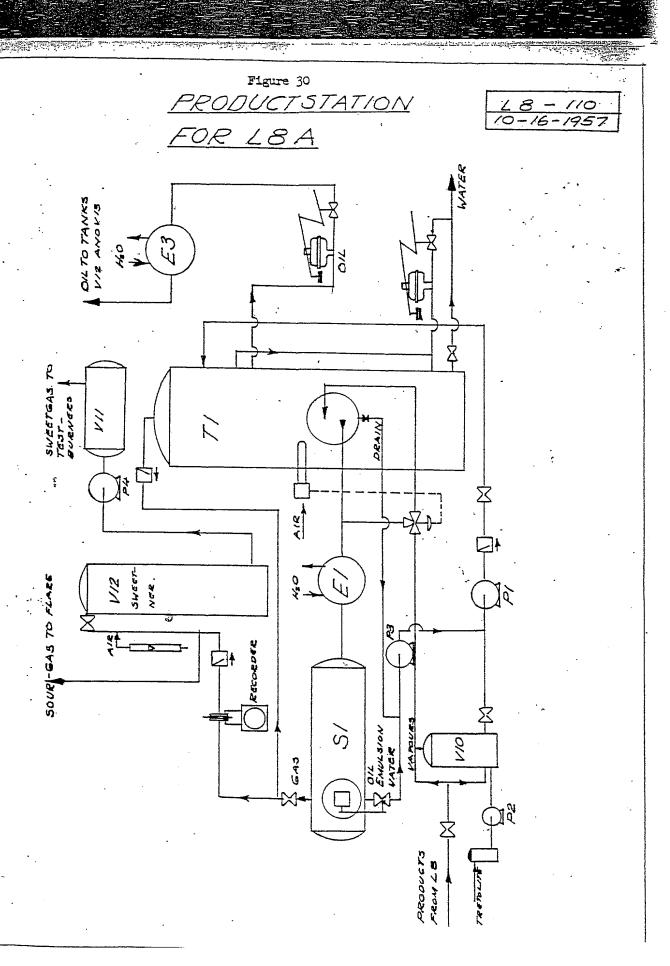
F-LINE, 3" P-LINE, 1"

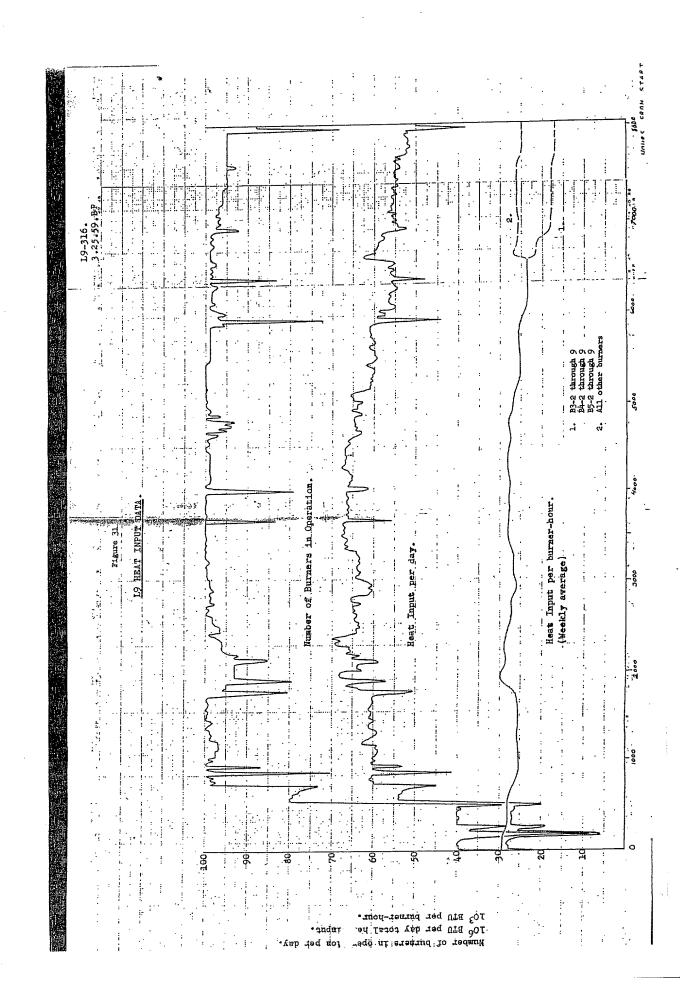
F-LINE, 2" R-LINE, 1"

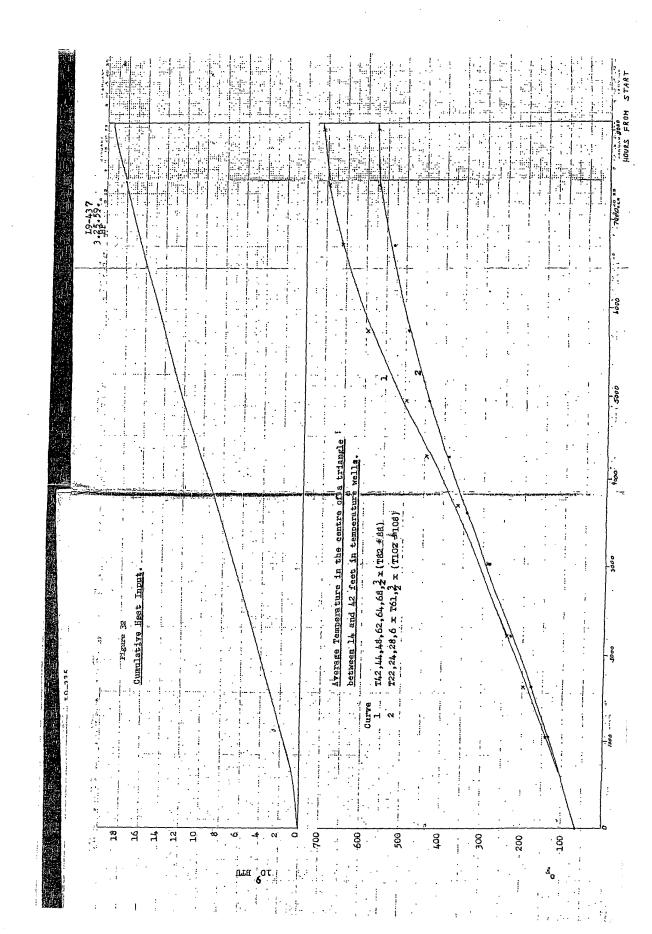
P-LINE, '2" PIPE.

<b>-</b>				н	LINE, 2	BOLS	AC	CORDING	TO L9-10	/2"								7
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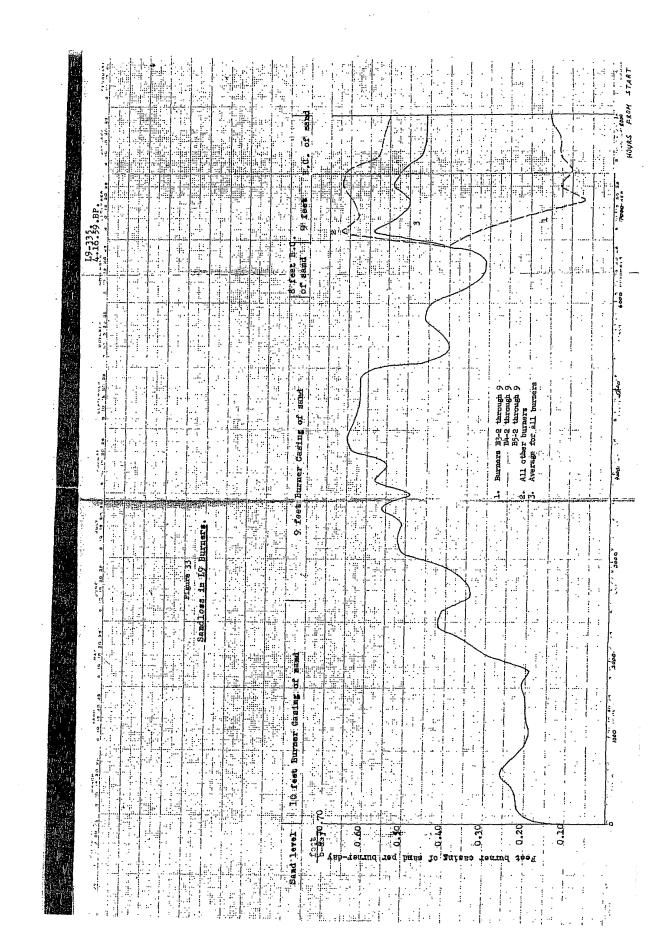


Figure 35

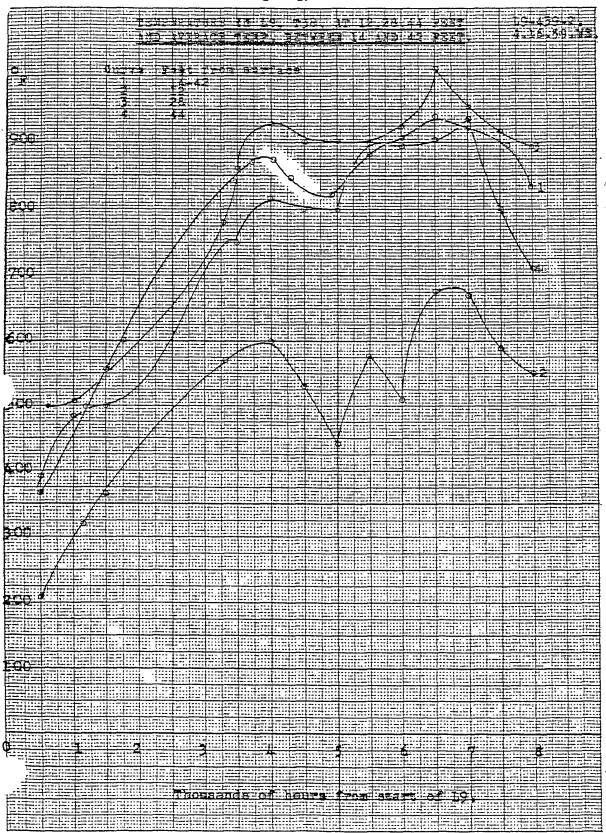


Figure 38 DEFERENT SAND WEIGHTS CONTRACTOR CURVE DATE HEAT WHIT FOR SAND FEIGHT AY BURVER STUMM FT 8-CASING 25 200 25,000 14

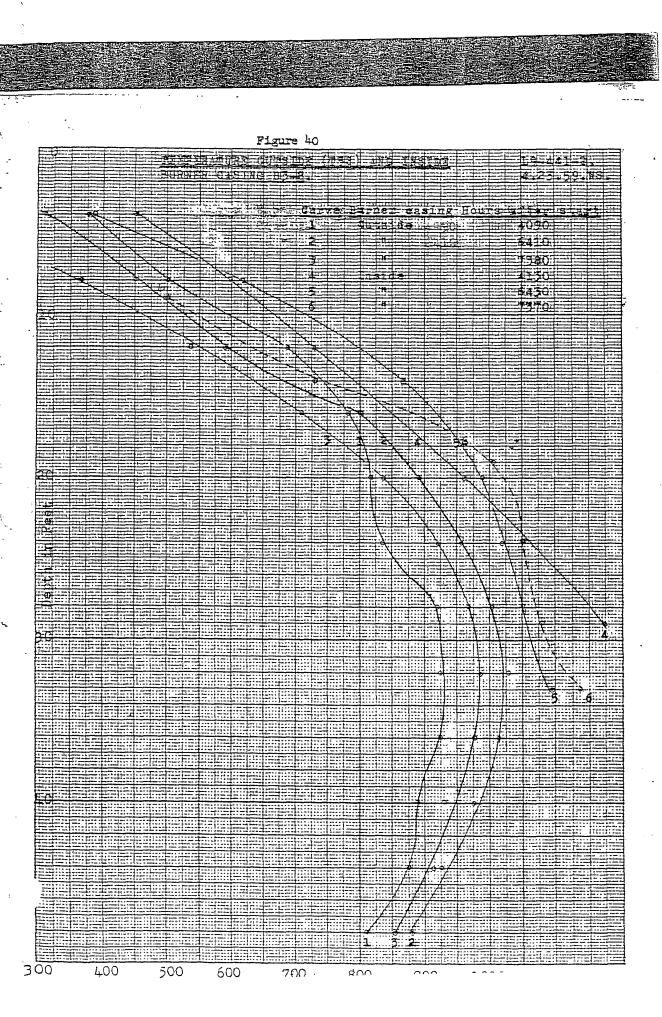


Figure 41

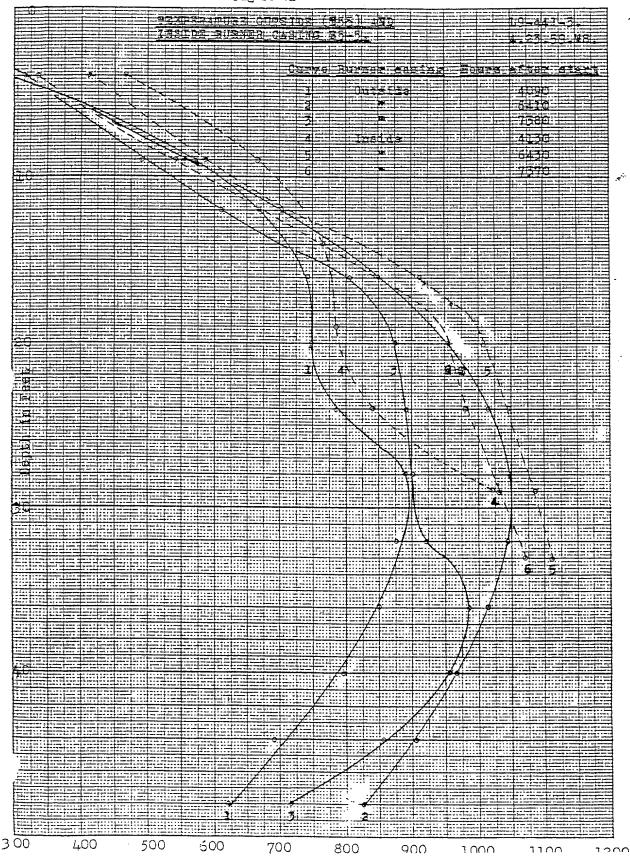


Figure 42

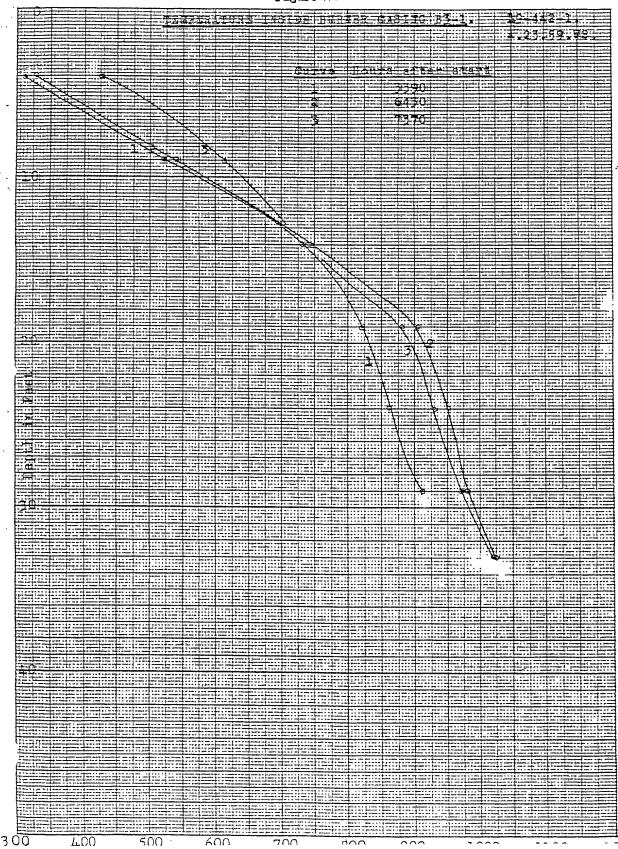
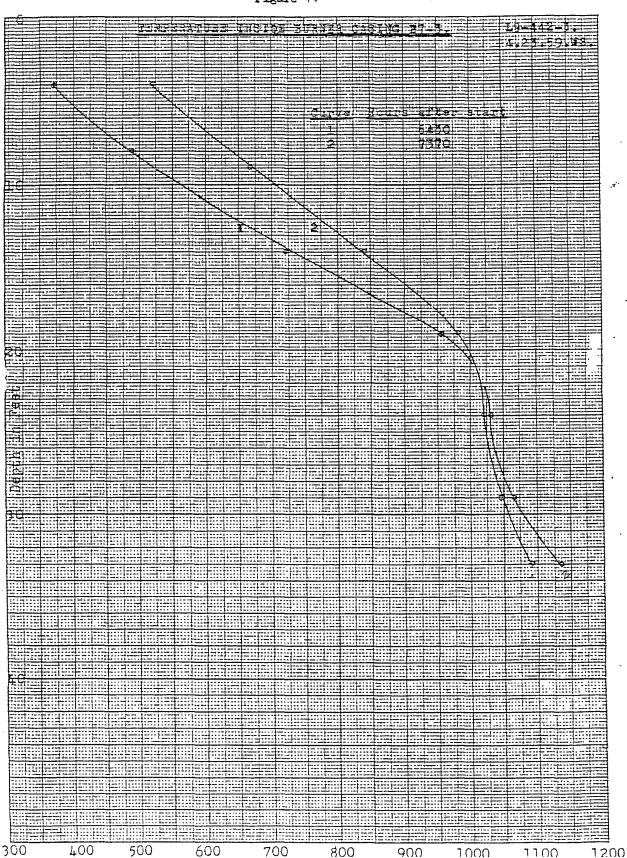
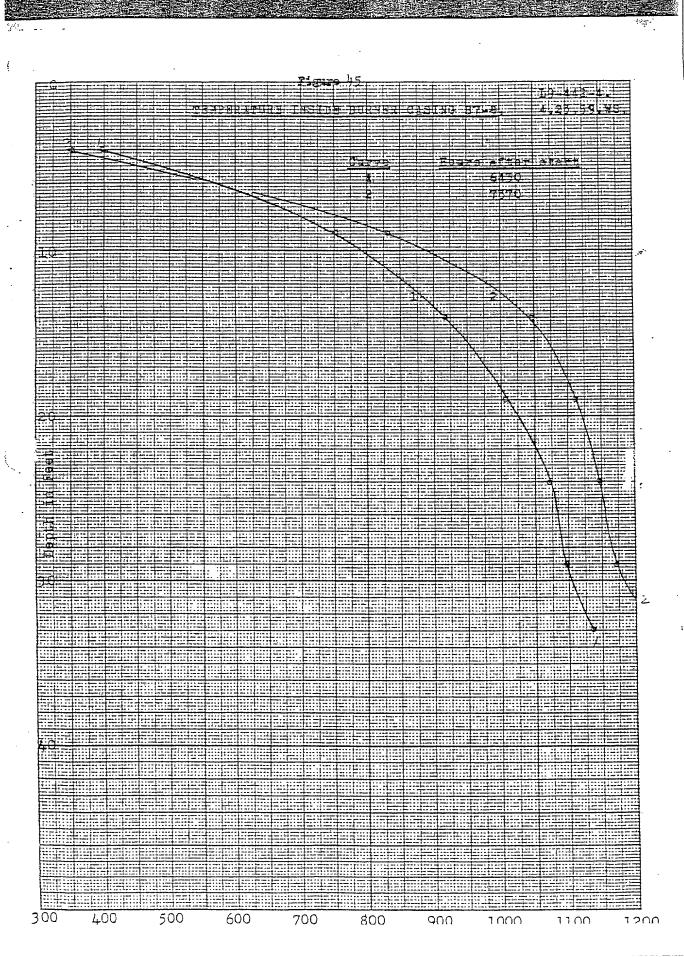
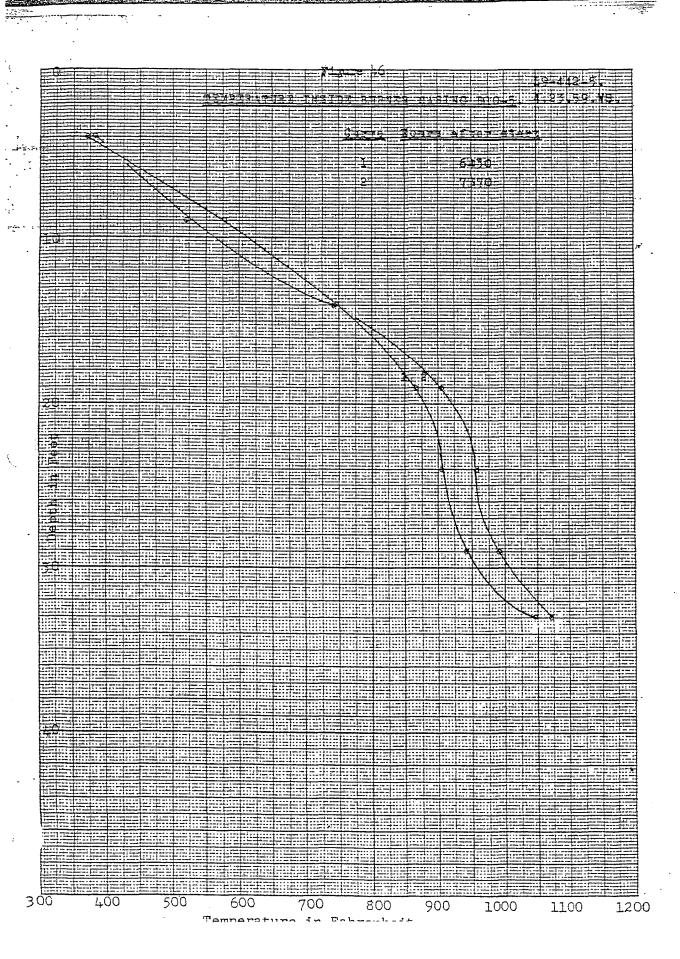


Figure 44

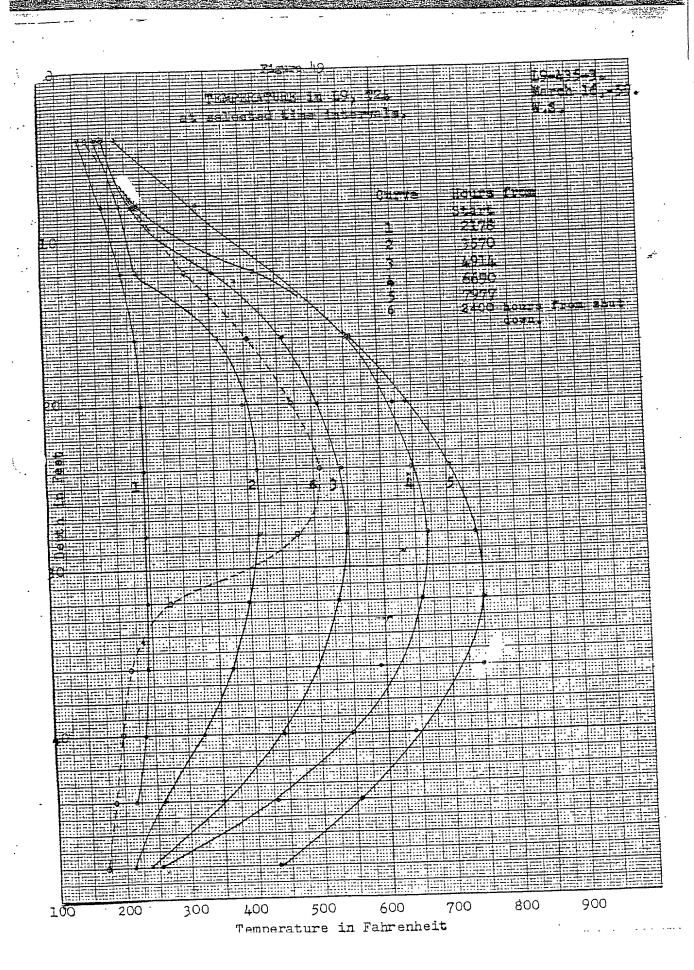




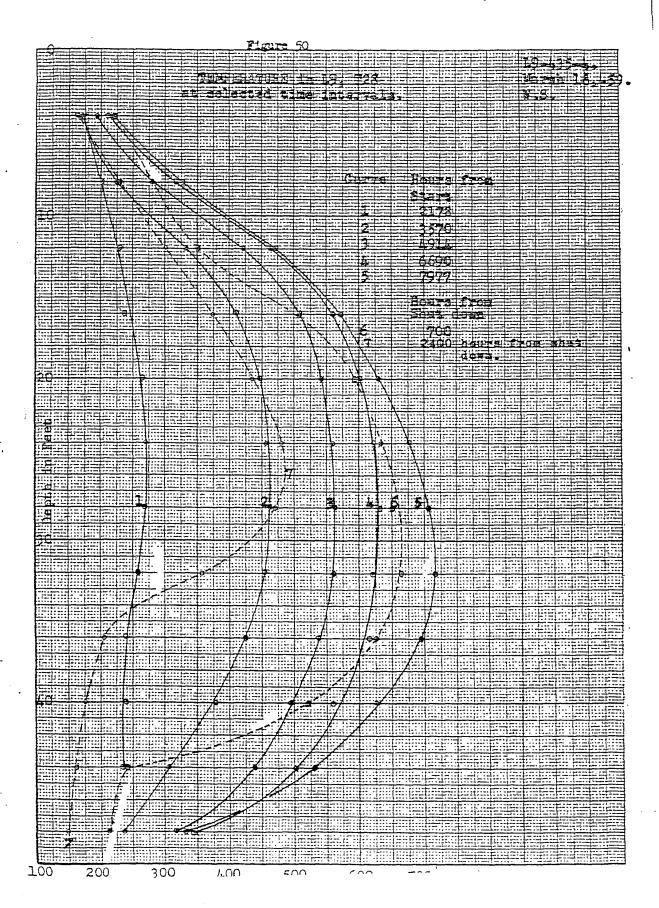


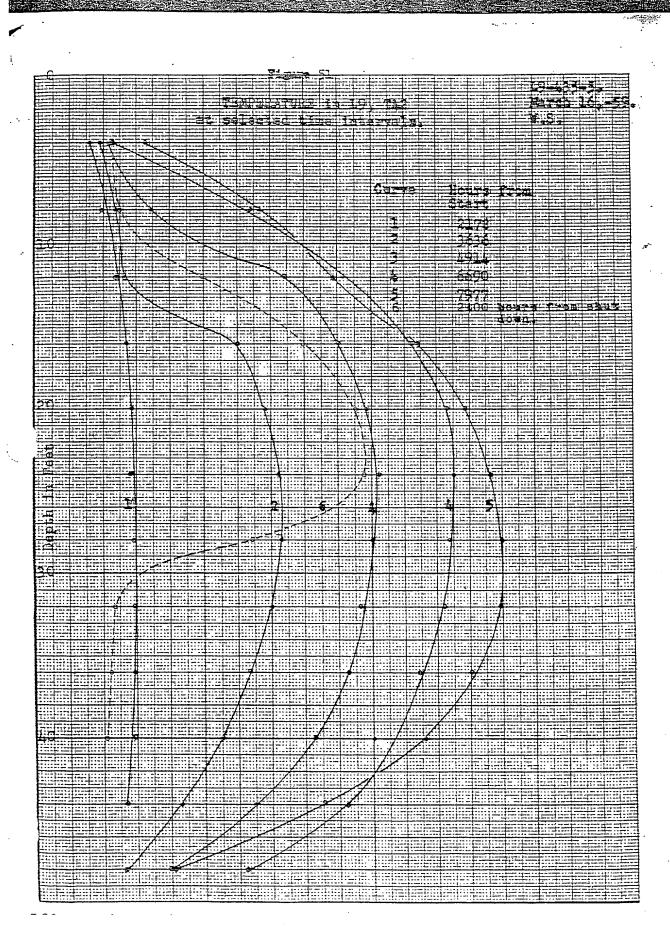
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Figure 47								
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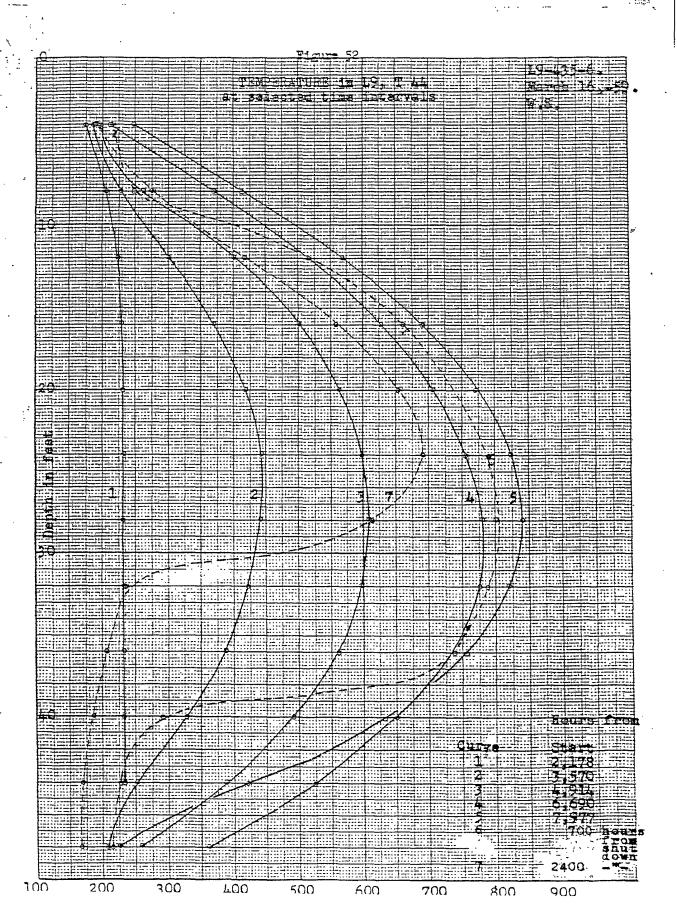


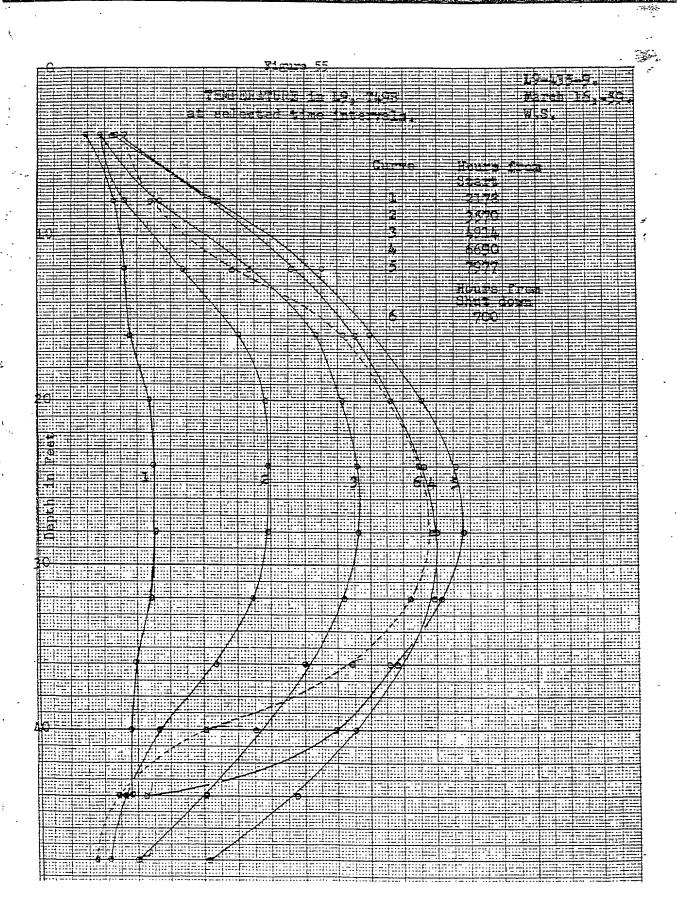
Figure 53 PERSONER 19 in salacted time intervals House Prom 21.78 6690 lours 77 om 34 

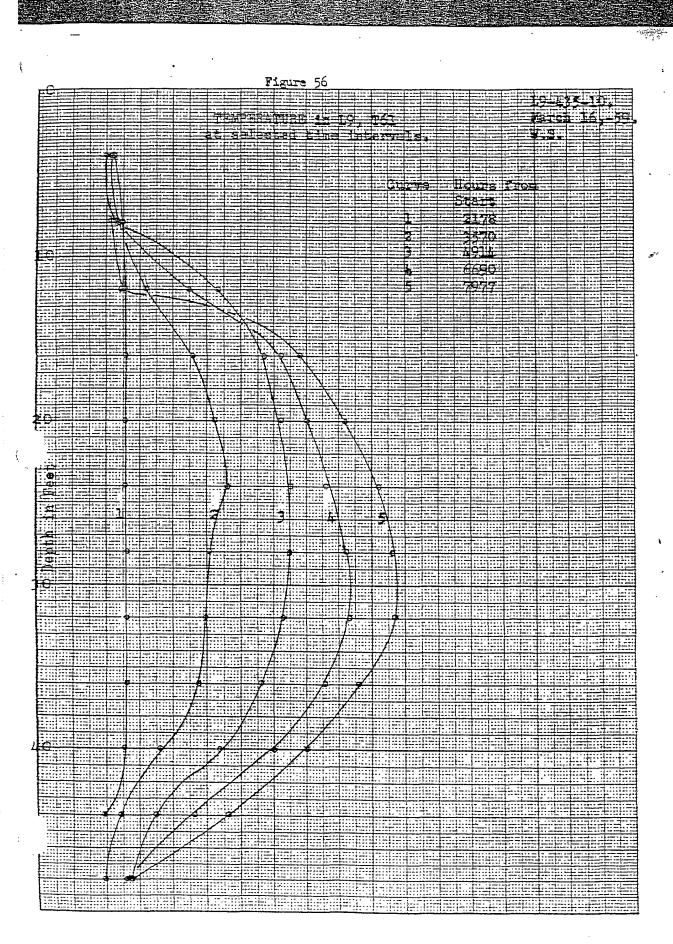
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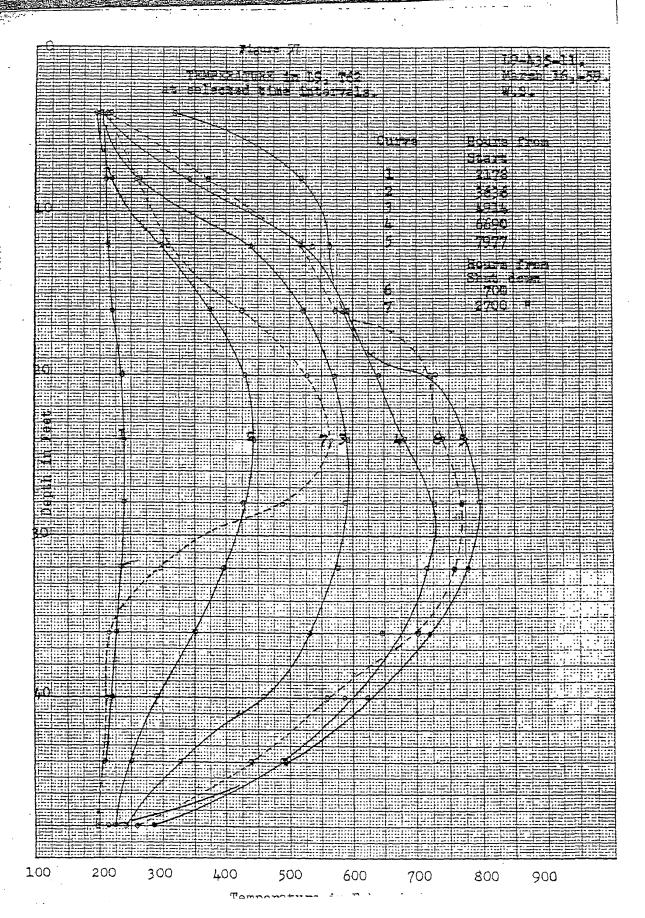
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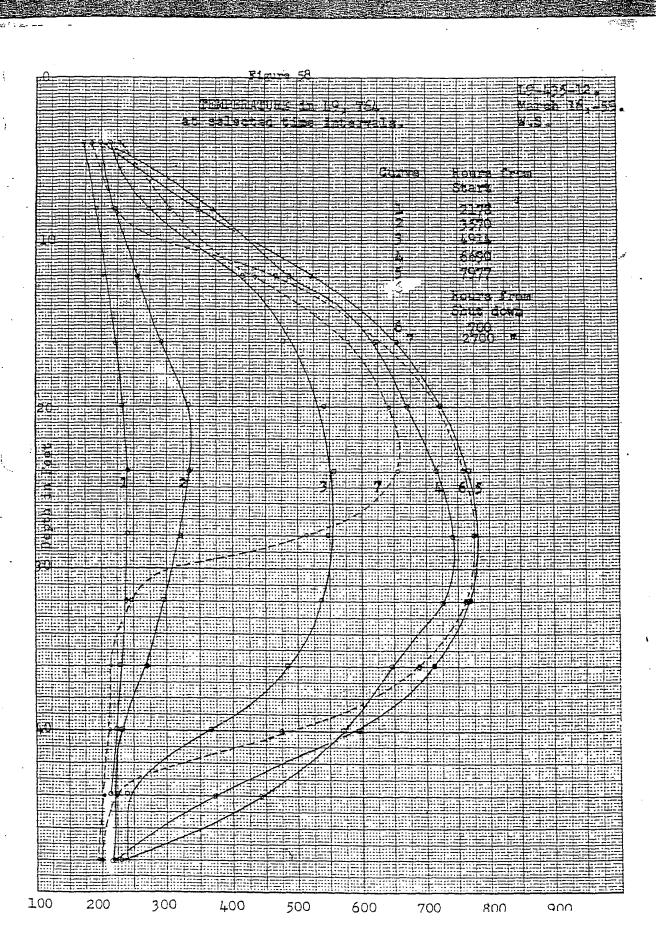
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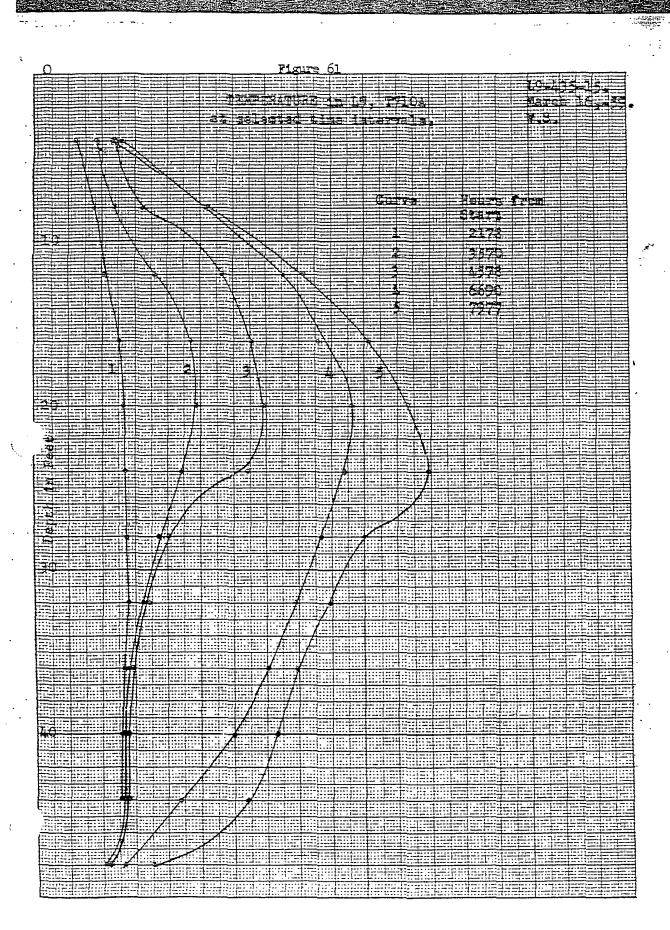


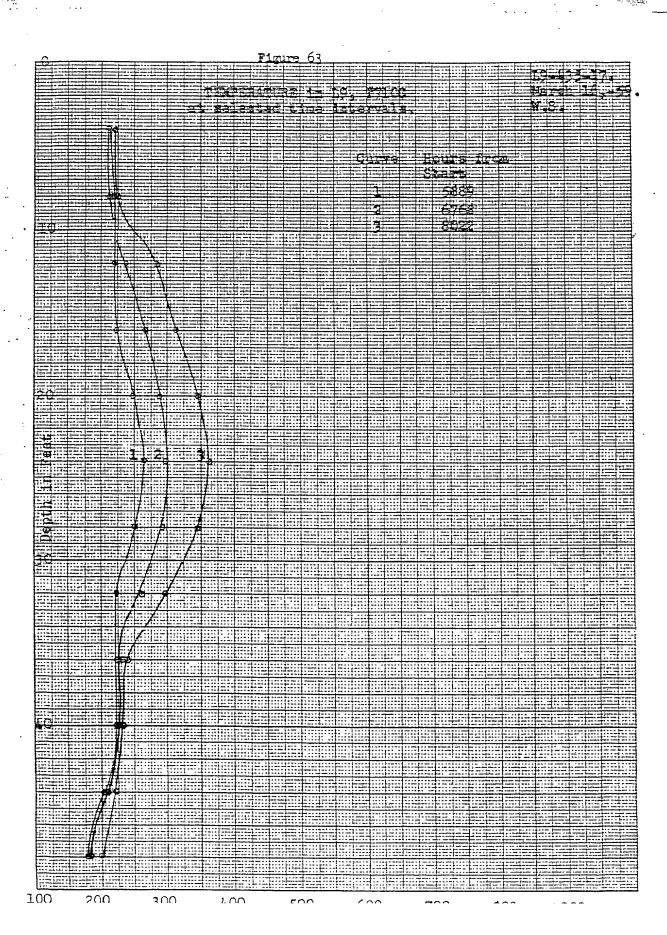






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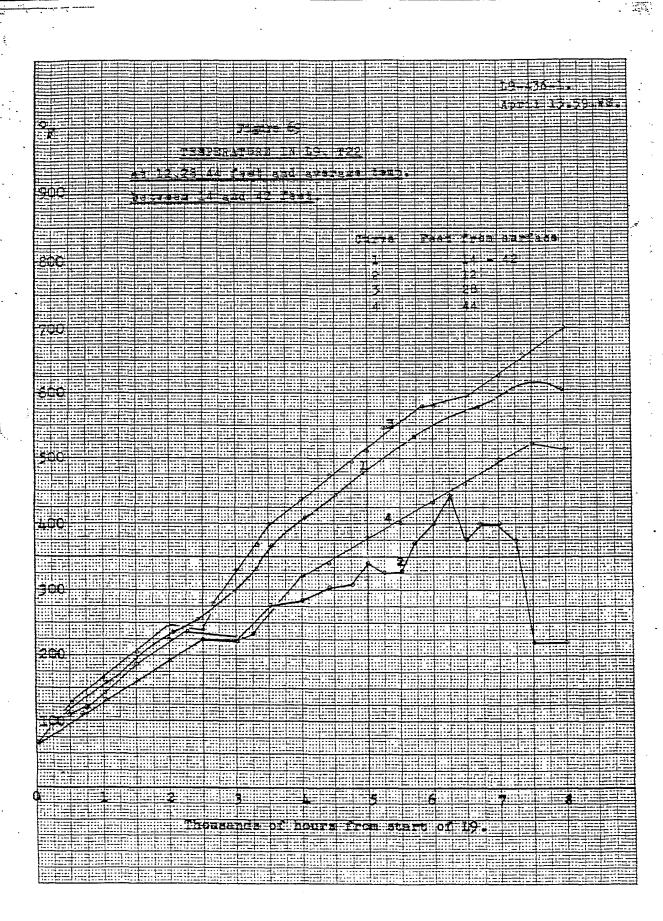
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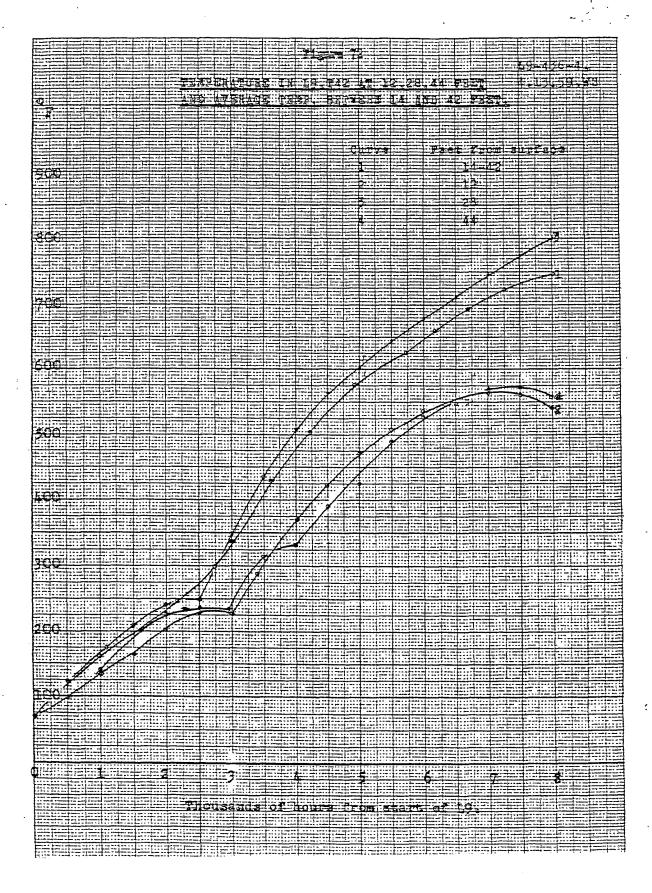
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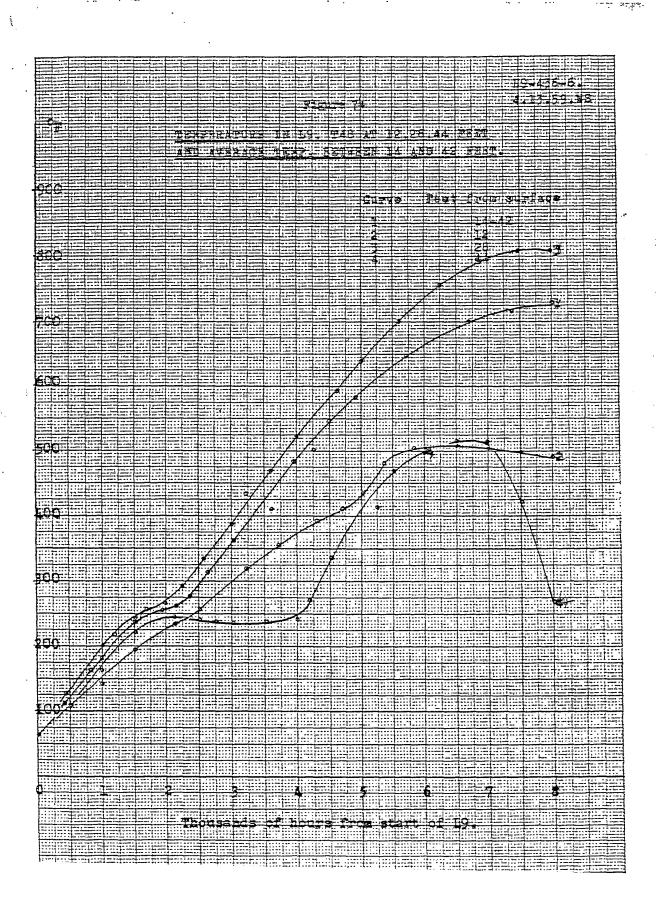
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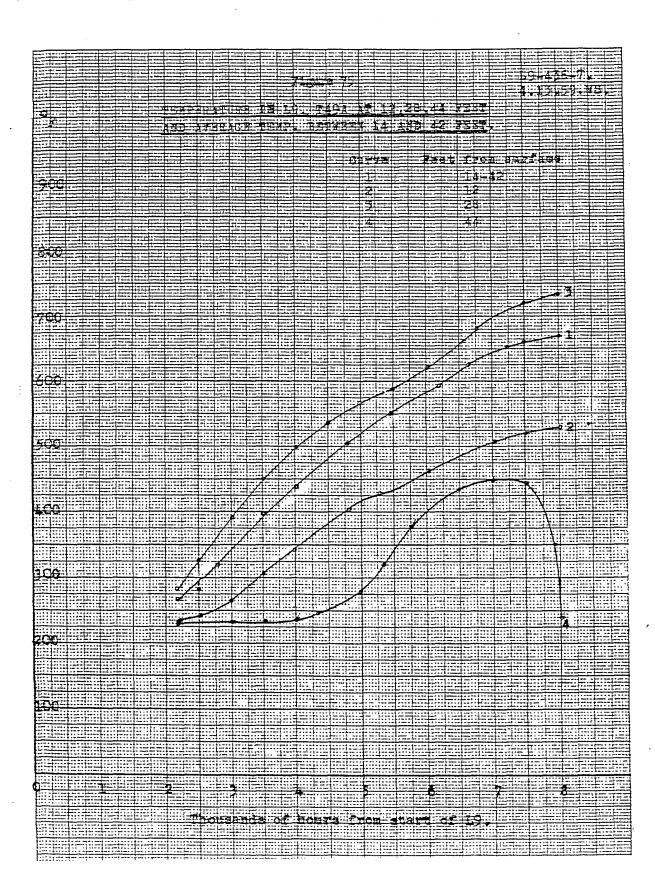


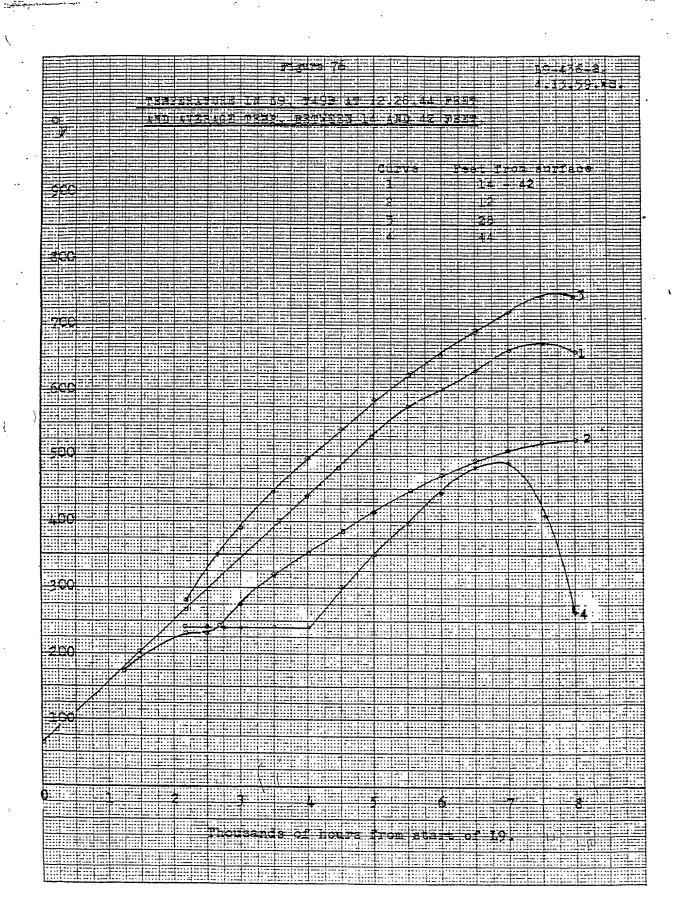
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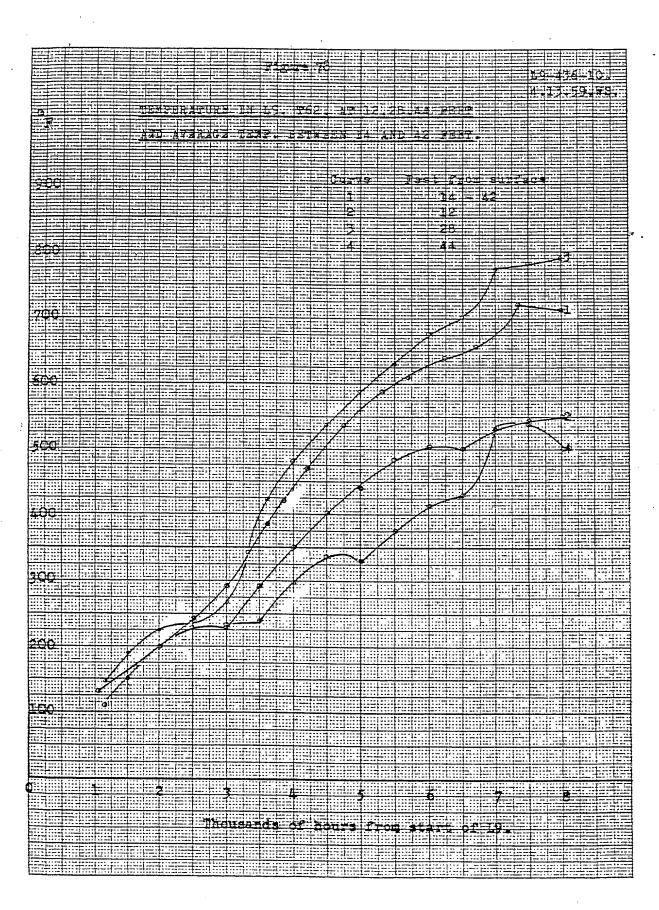






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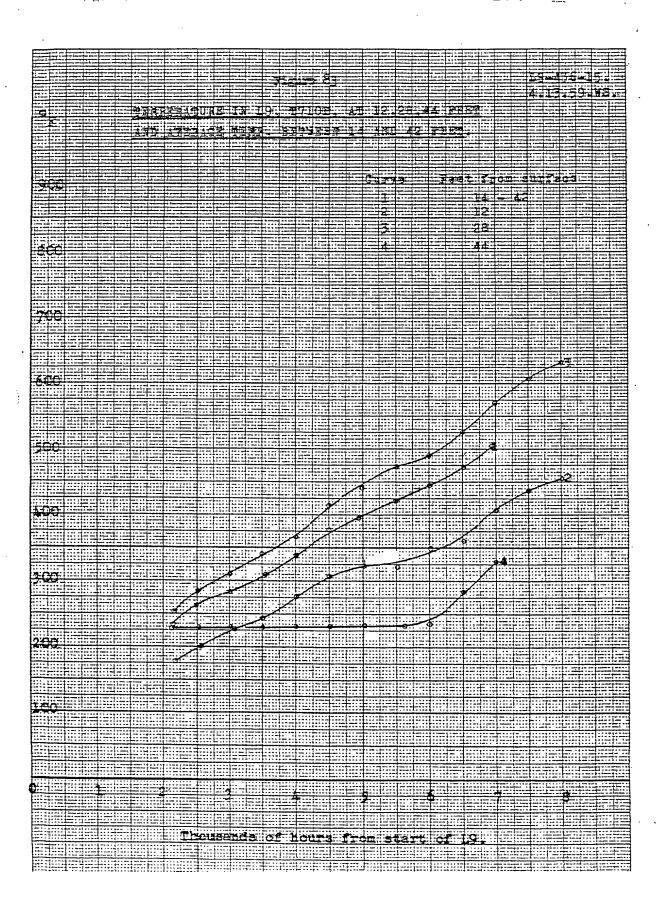
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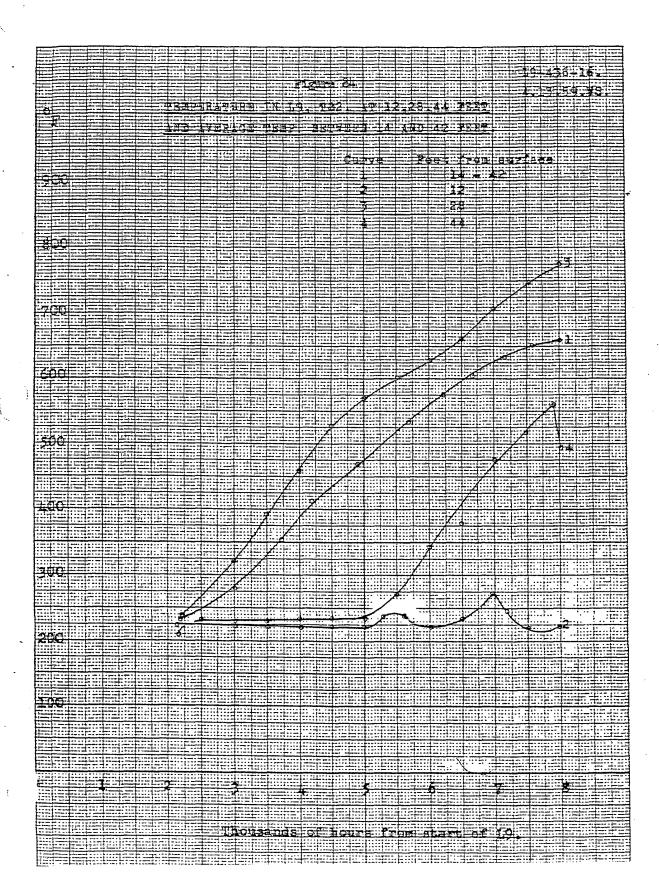


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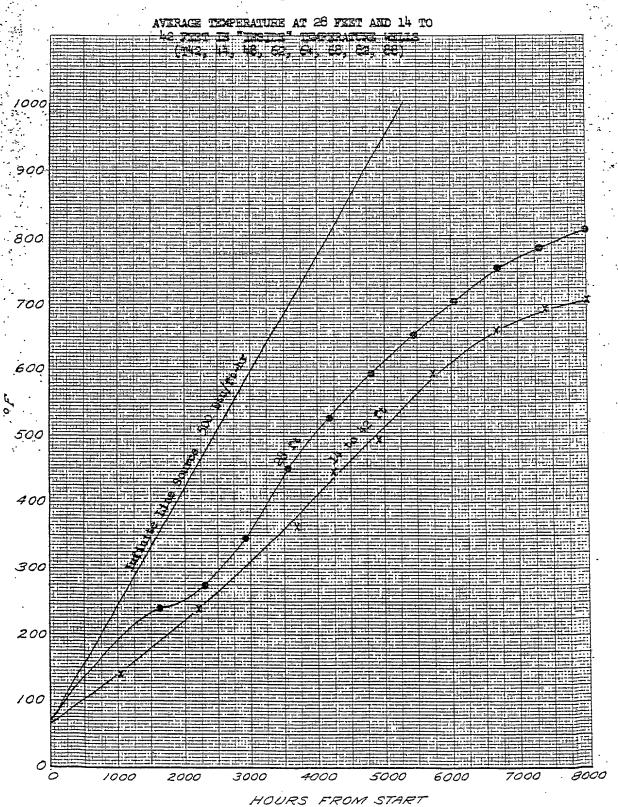
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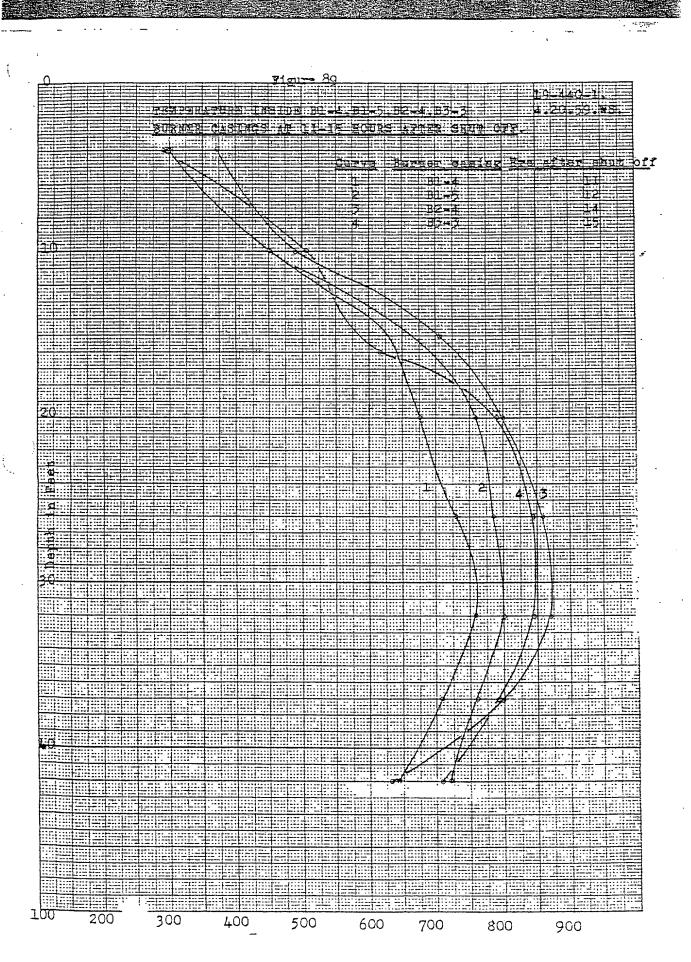
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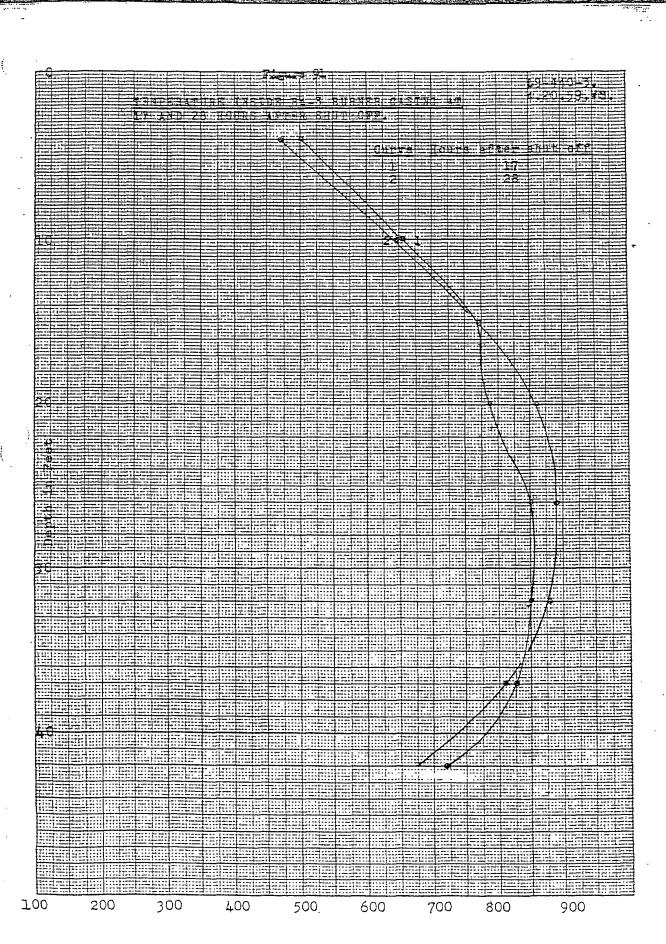
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Figure 88

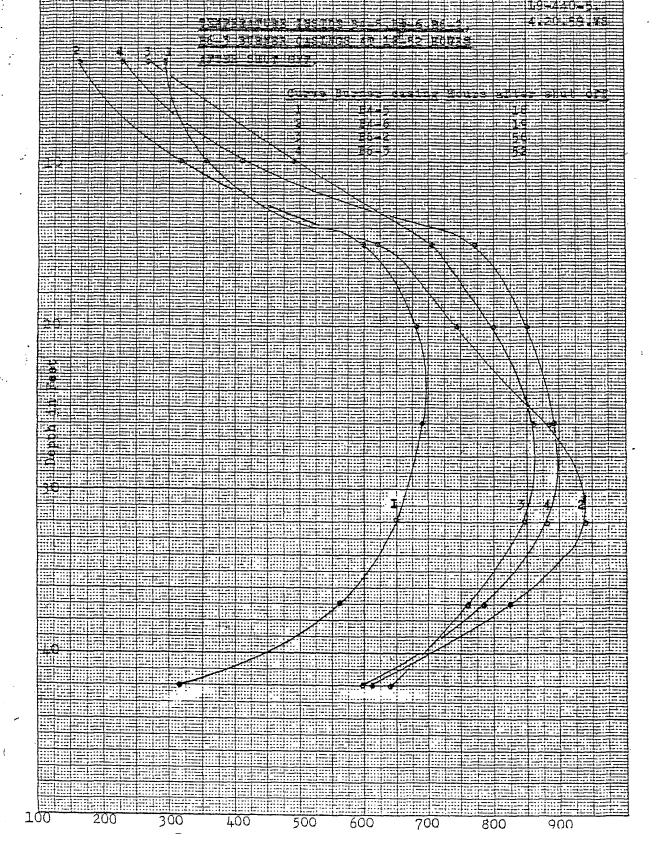


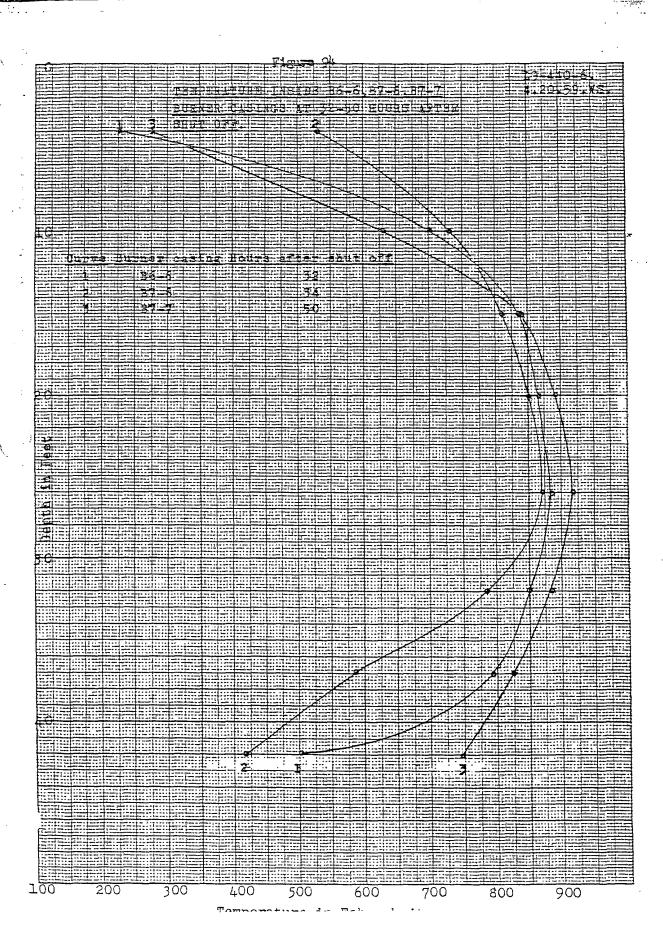


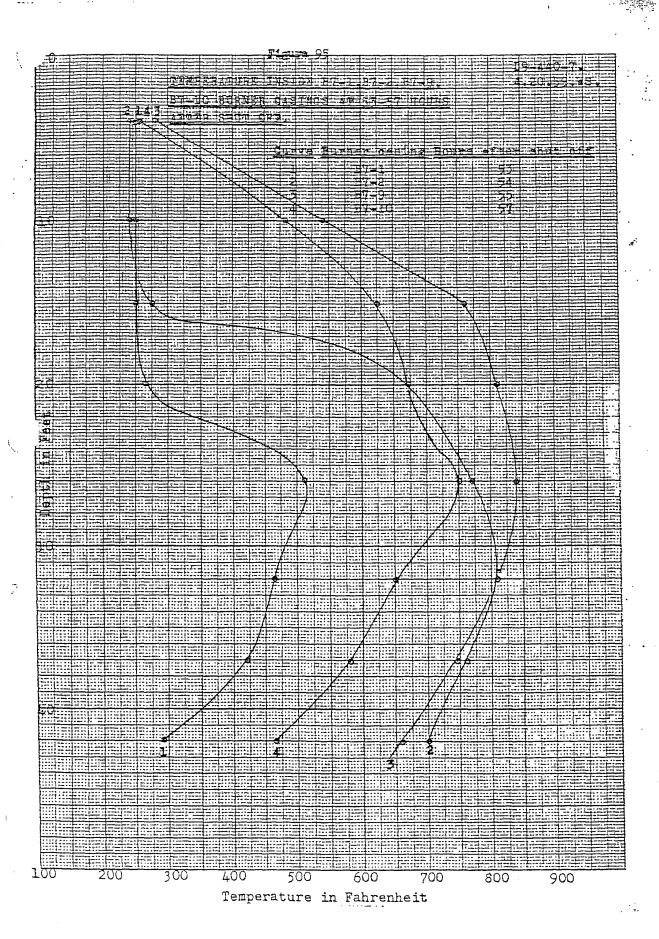


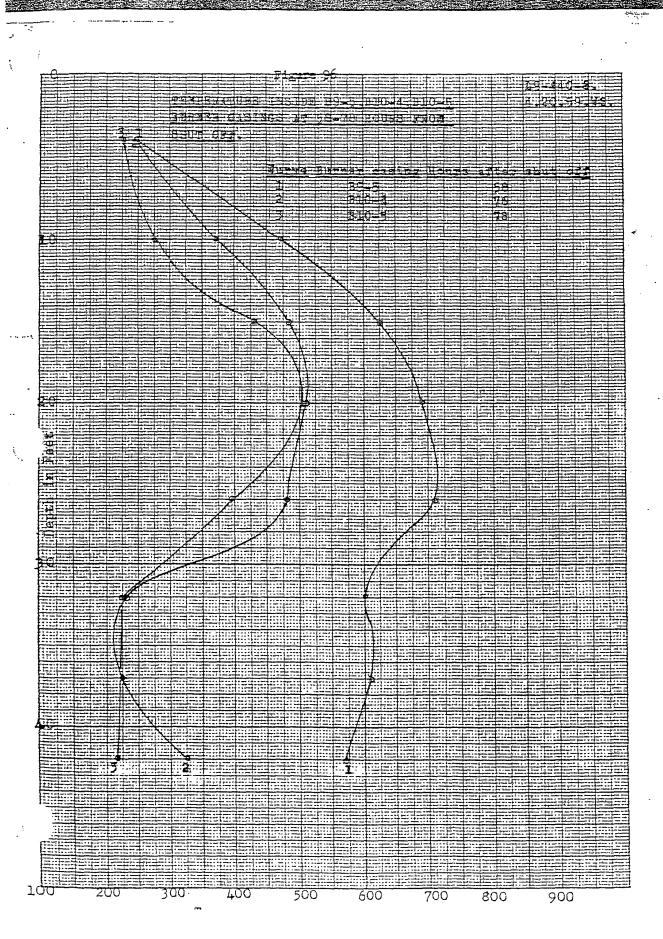
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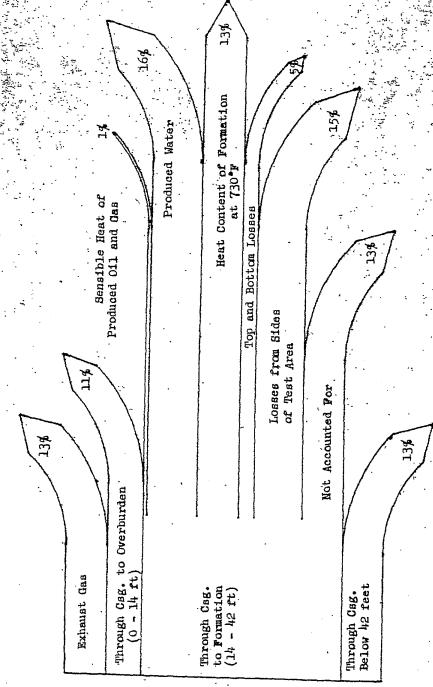
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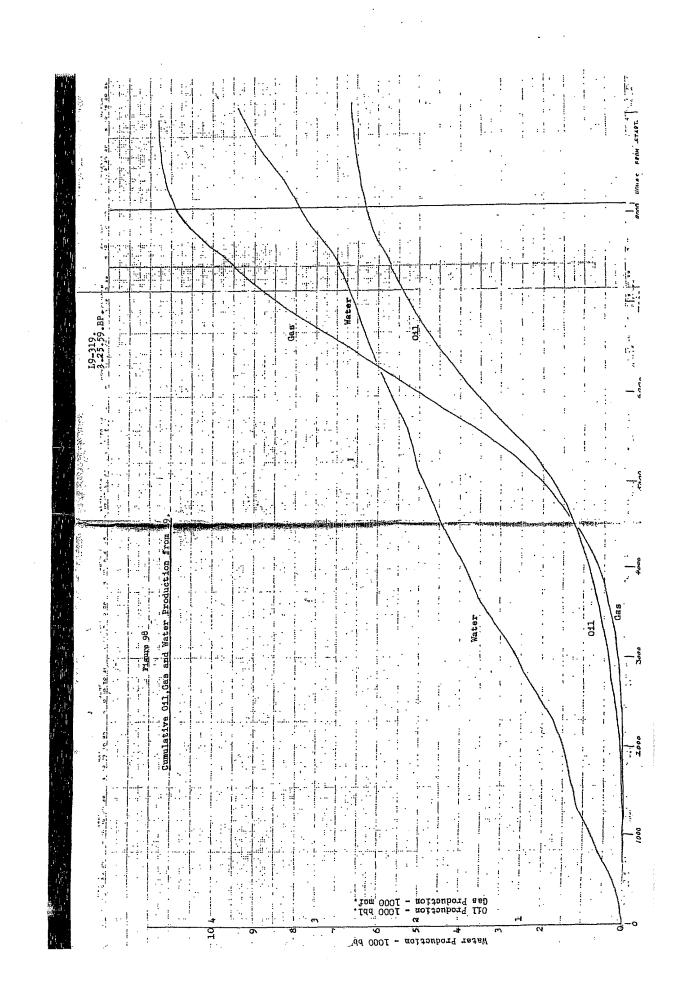


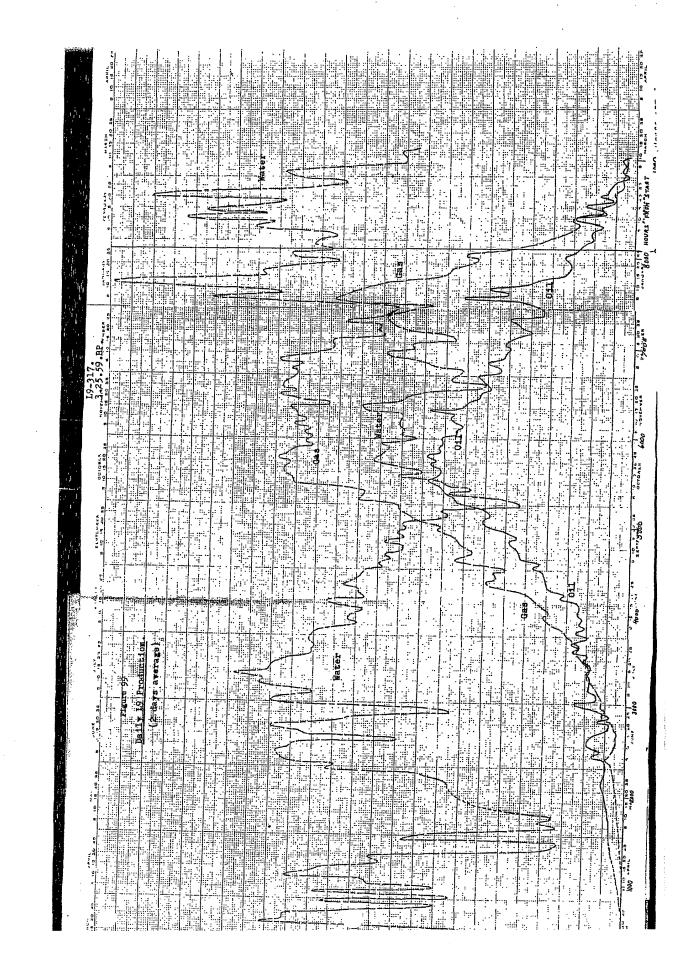
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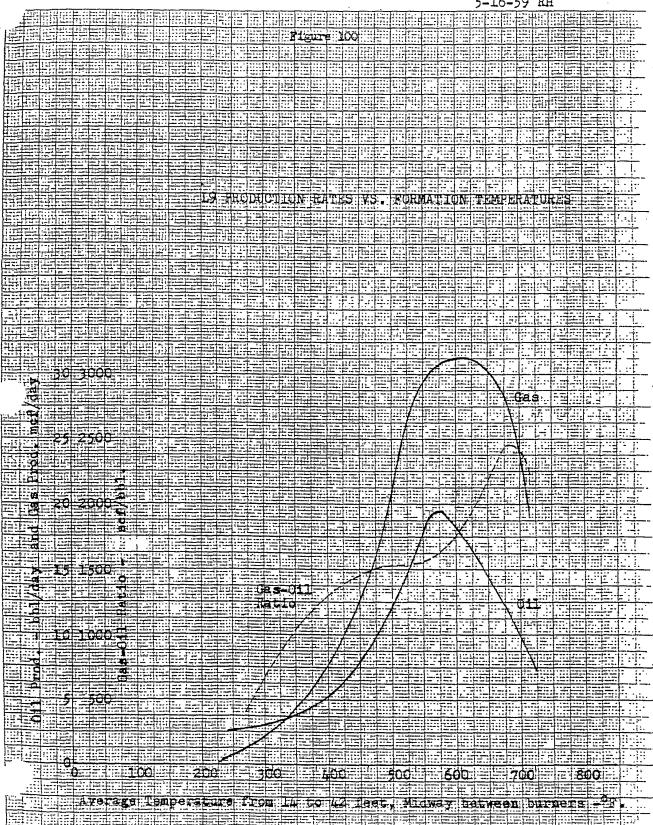
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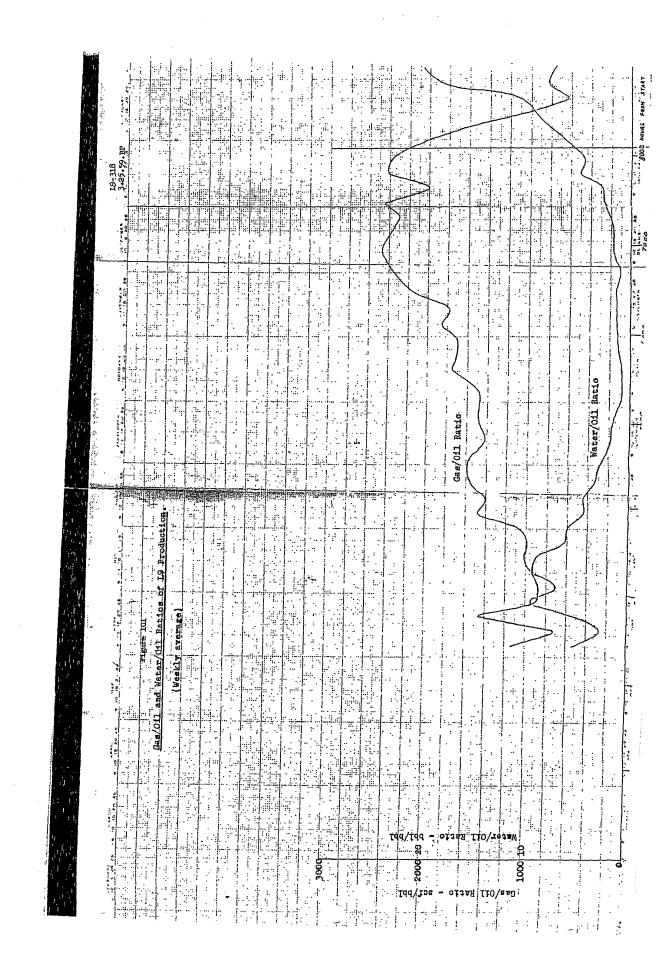
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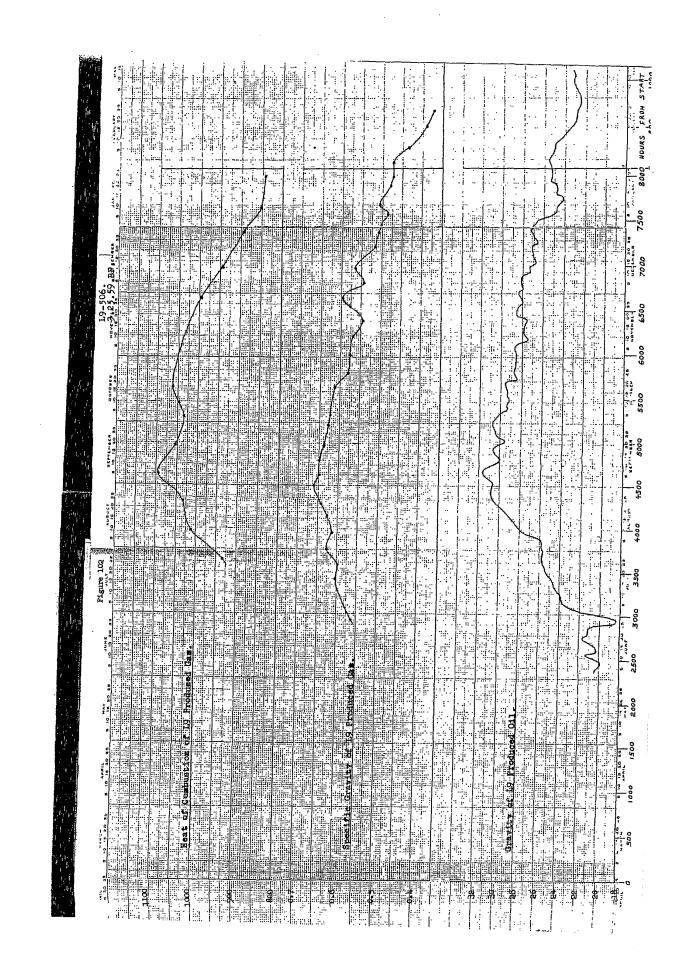




L9-705 5-16-59 RH

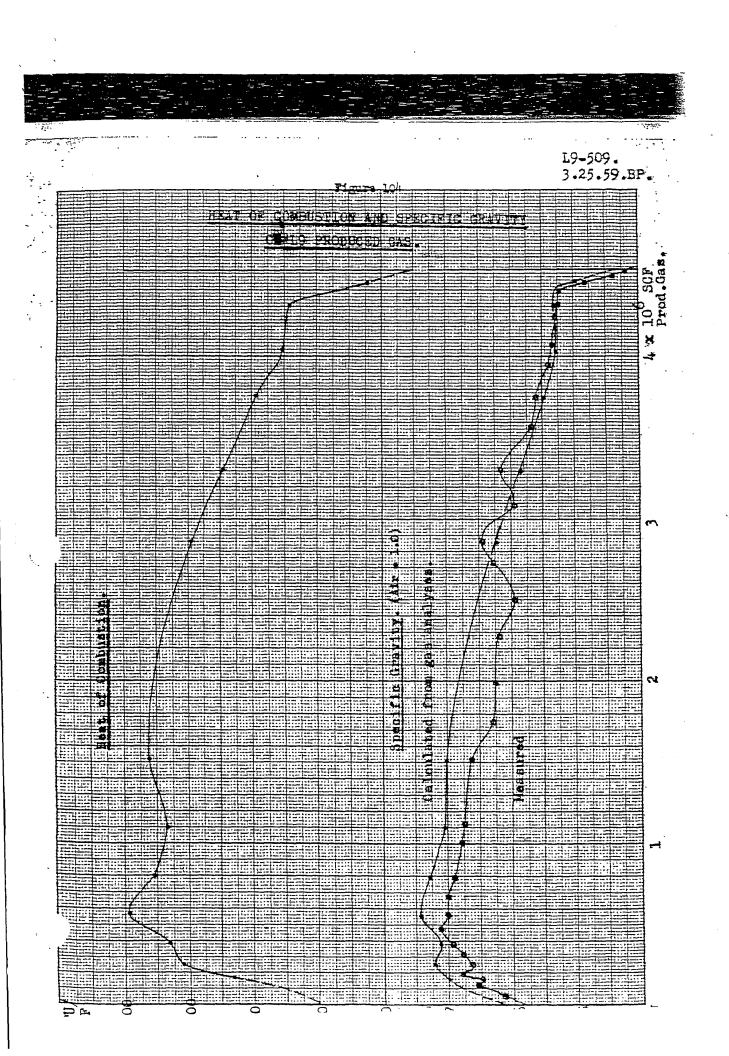


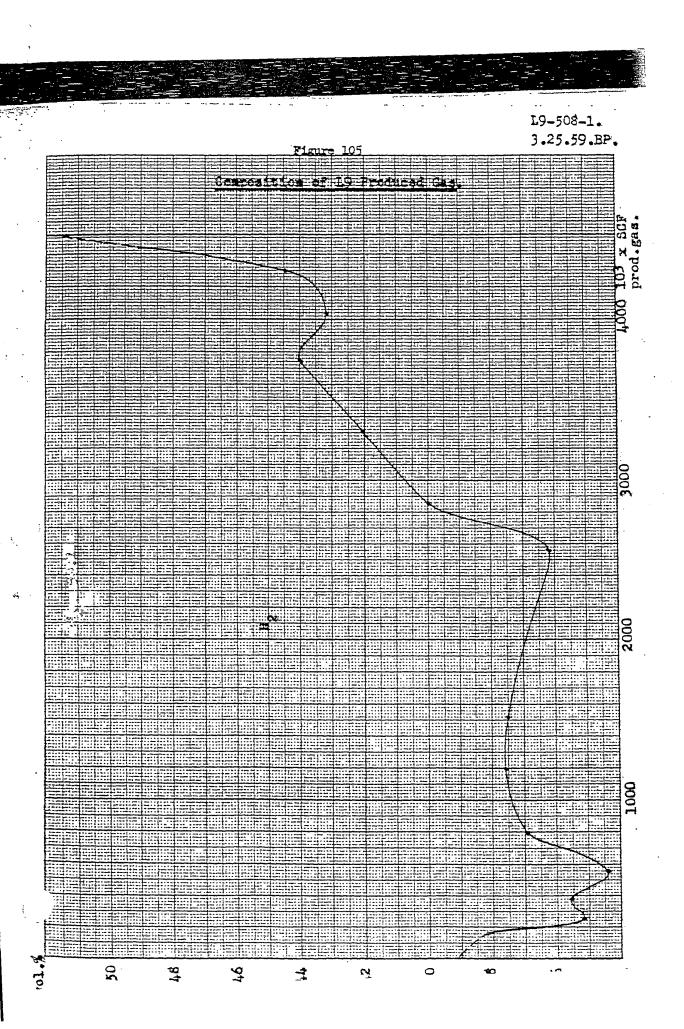


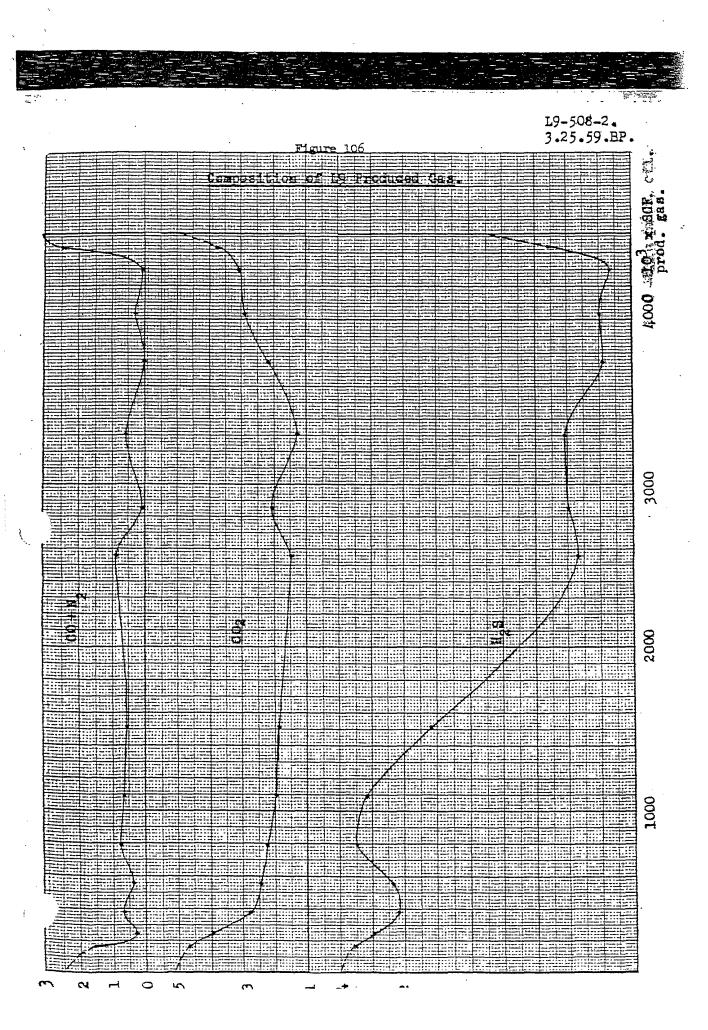


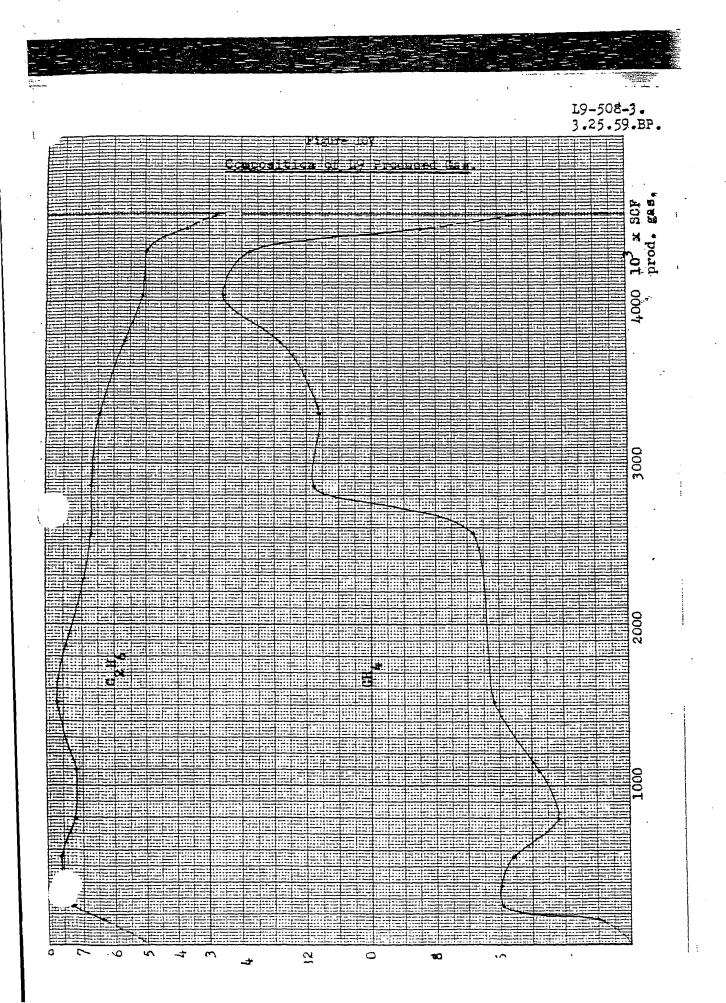
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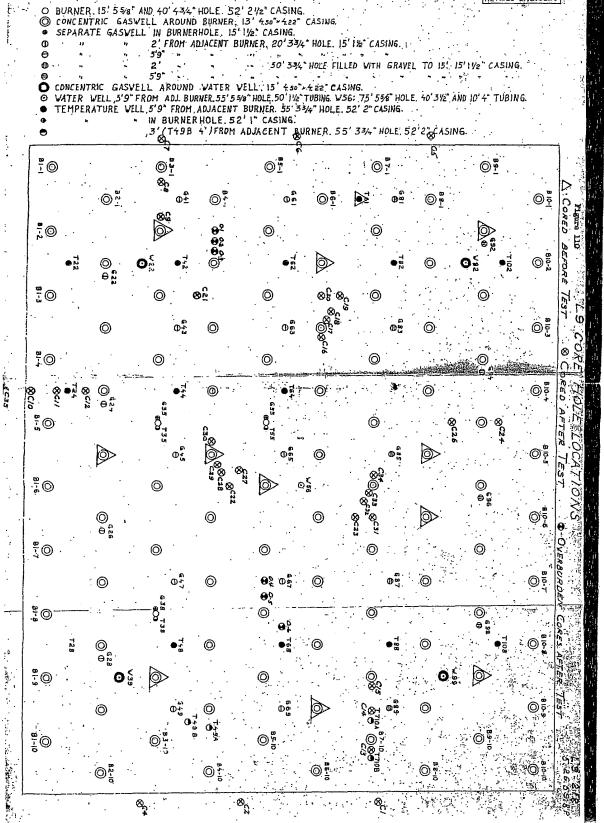


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## HOLE PATTERN OF TEST L9.

L 9-101. JAN. 21.1958. &P REVISED 3.15.58.AP



## L9 CORE HOLE LOCATIONS Figure 110

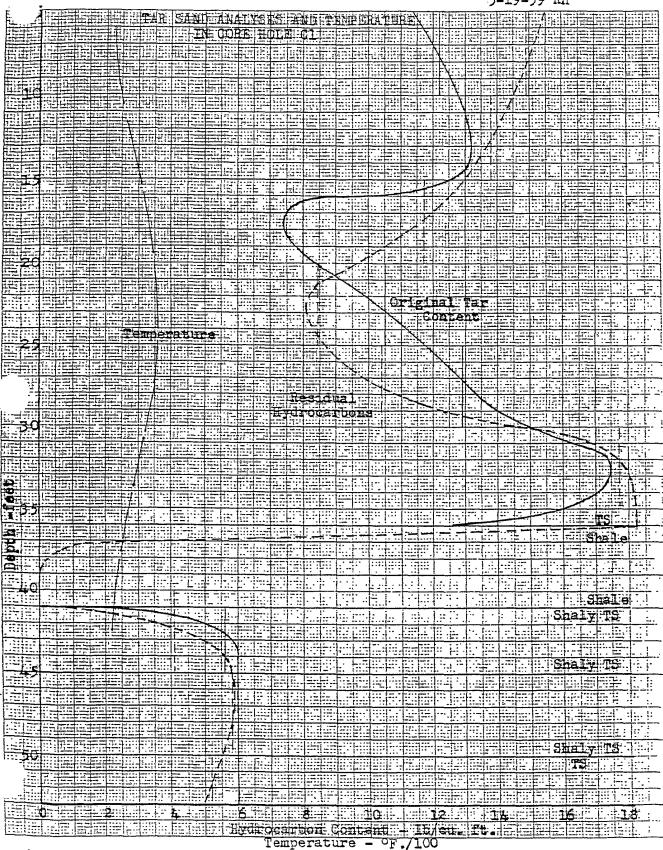
Core Hole No.	*
	Locations
C)	10 * N. of B7-10 then 1 * west
<b>C</b> 2	10' N. of B5-10 then 4' - 4" west
<b>c</b> 3	7' N. of C2
<b>C</b> 4	10' N. of B3-10 then 2'-4" east
<b>C</b> 5	10' S. of B8-1
<b>c</b> 6	10' S. of B6-1 then 4'-4" east
<b>C7</b>	5' S. of B3-1
<b>c</b> 8	2' N. of B3-1 (between B3-1 and B3-2)
<b>c</b> 9	2'-3-1/2" s. of B3-2 ( -"- )
<b>C</b> 10	11'-5-1/2" E. of B2-4
CIL	7'-10-1/2" E. of B2-4
C12	3'-8" E. of B2-4 (between B2-4 and T24)
C13	1'-5" N. of B7-10
. C14	4'-6" S. of B7-10 (between B7-10 and B7-9)
C15	1'-1-1/2" N. of B7-9 ( )
<b>C1</b> 6	10" N. of R6-3
C17	1'-5" from B6-3 towards B7-2
C18	2:- <u>11</u> * * * *
<b>C1</b> 9	5'-9" " " " (between B6-2, 6-3, 7-3)
<b>C</b> 20	5' S. of B6-3 (between B6-2 and B6-3)
C21	Midway between B3-3, B4-2, and B4-3
C22	" B4-5, B4-6, and B5-6
<b>c</b> 23	* B6-6, B7-6, and B7-8
C24	2'-5-1/2" west of B9-5
<b>C</b> 25	3'-5" east of B9-5

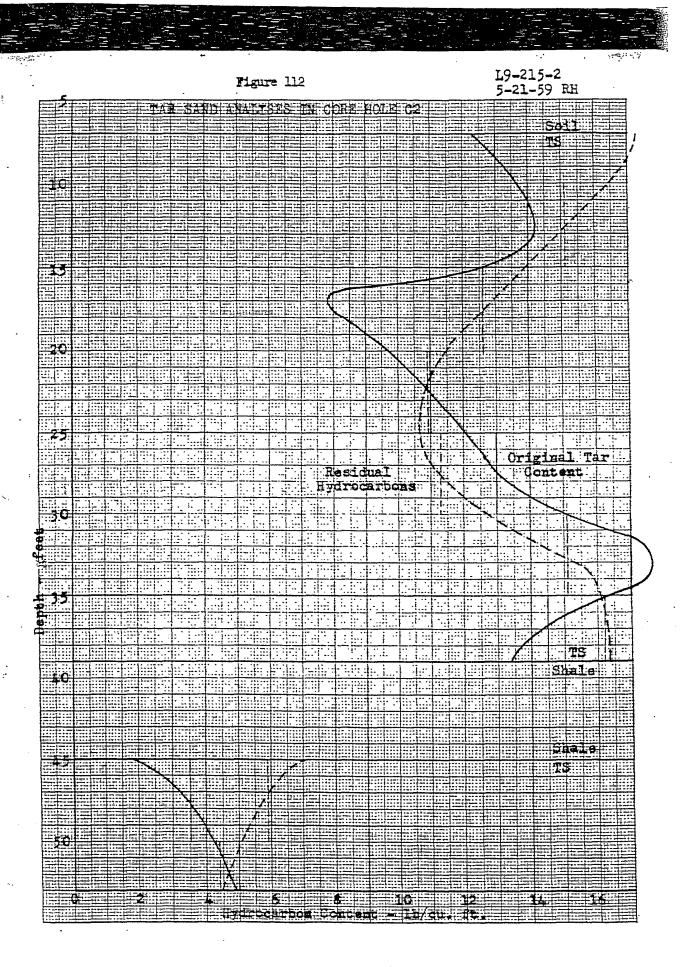
## L9 CORE HOLE LOCATIONS Figure 110

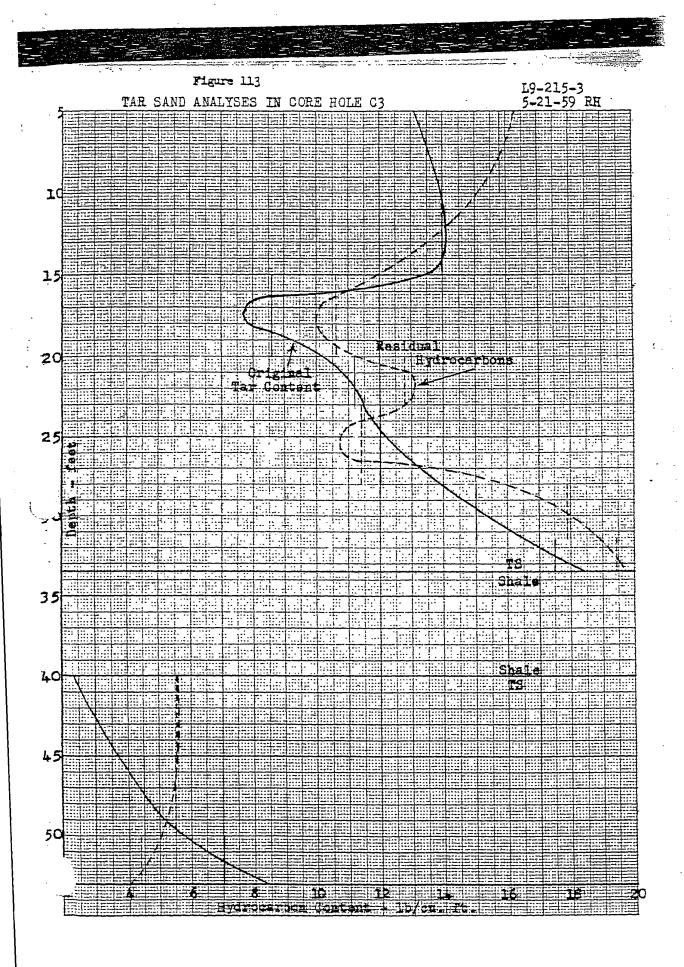
Core Hole		Locations											
<b>c</b> 26		4'-5" east of B9-5											
· C27	٠٠,	5' fro	n B4-	5 betw	een Bi	-5 and	B5 <b>-</b> 6						
<b>c</b> 28		2*-11*	fra	B4-5	toward	B5-7							
<b>c</b> 29		1"-5"	78		11	*							
<b>c</b> 30		11*	#	Ħ	×	Bit-jt							
C31	-	51 fro	n B7-	6 bets	een B7	-6 and	B7-7						
<b>c</b> 32		2'-11"	fra	B7-6	toward	в В6-7							
<b>C3</b> 3		1'-5"	Ħ	Ħ	Ħ	*							
<b>C</b> 34	• .	10" to	12*	from l	37-6 ta	wards B	<b>17-</b> 5						
<b>c</b> 35 .	•	14'-7-	1/2"	east (	ag B5→								

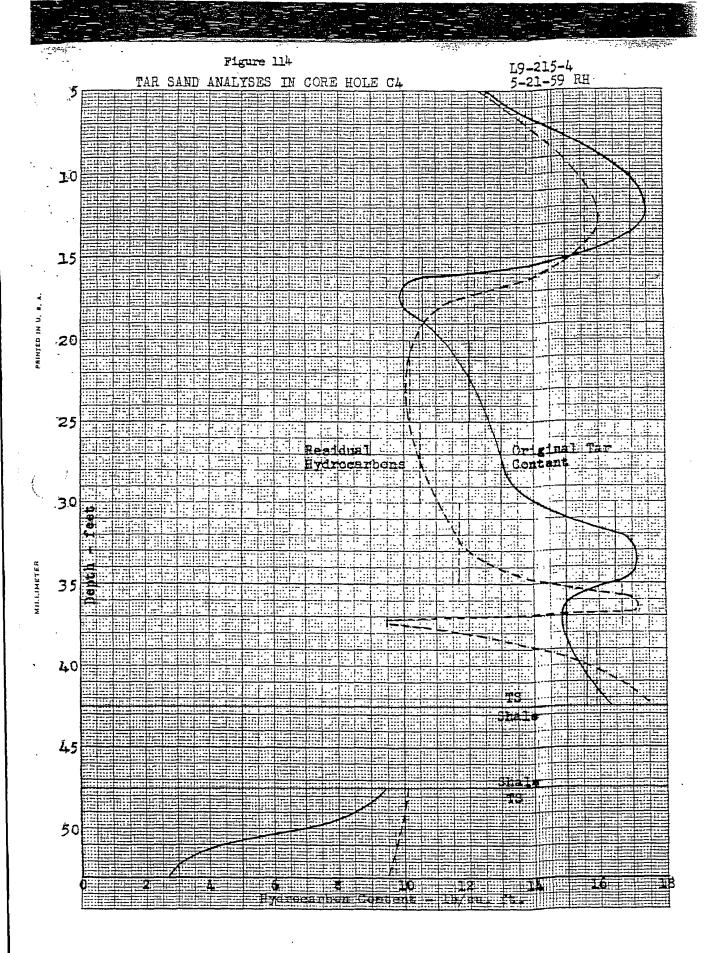
Figure 111

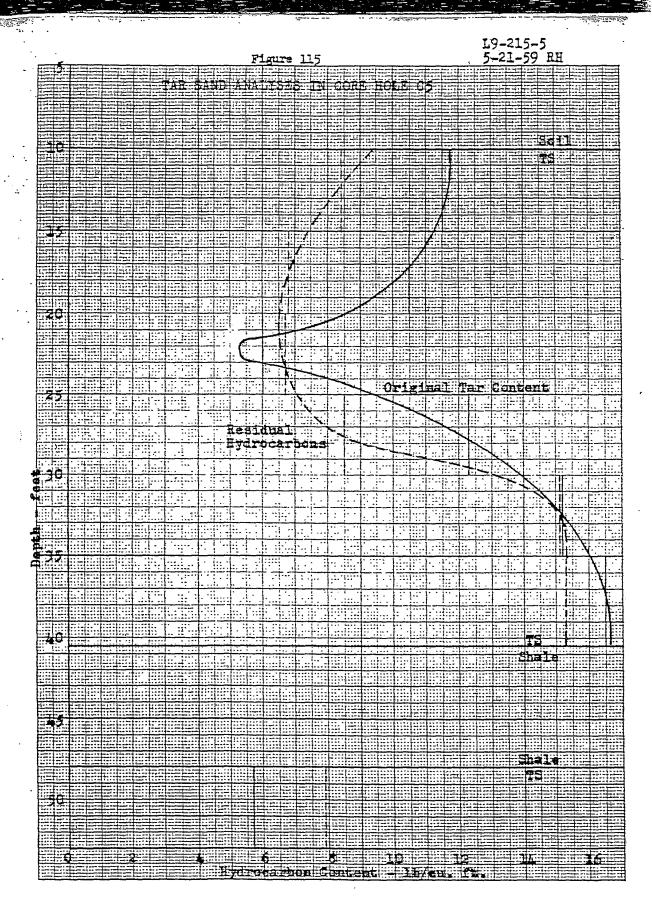
L9-215-1 5-19-59 RH

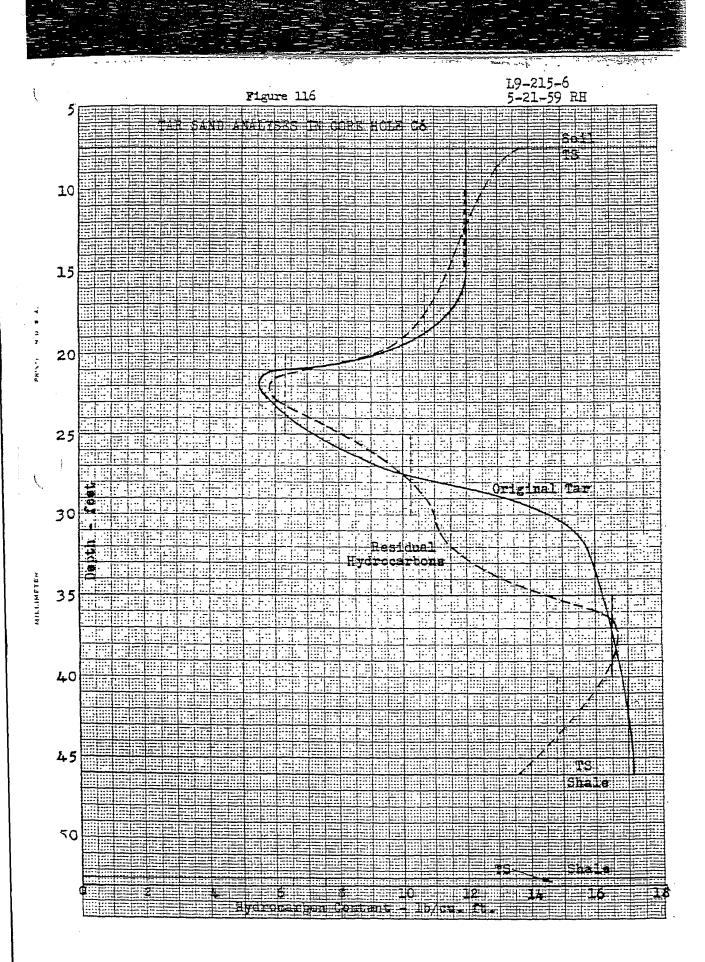


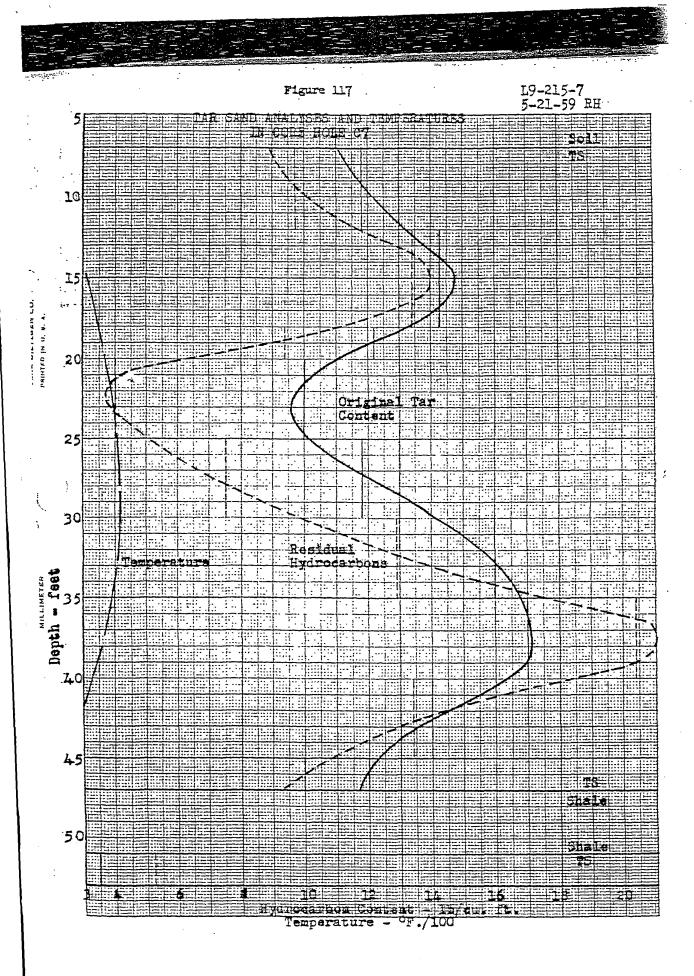


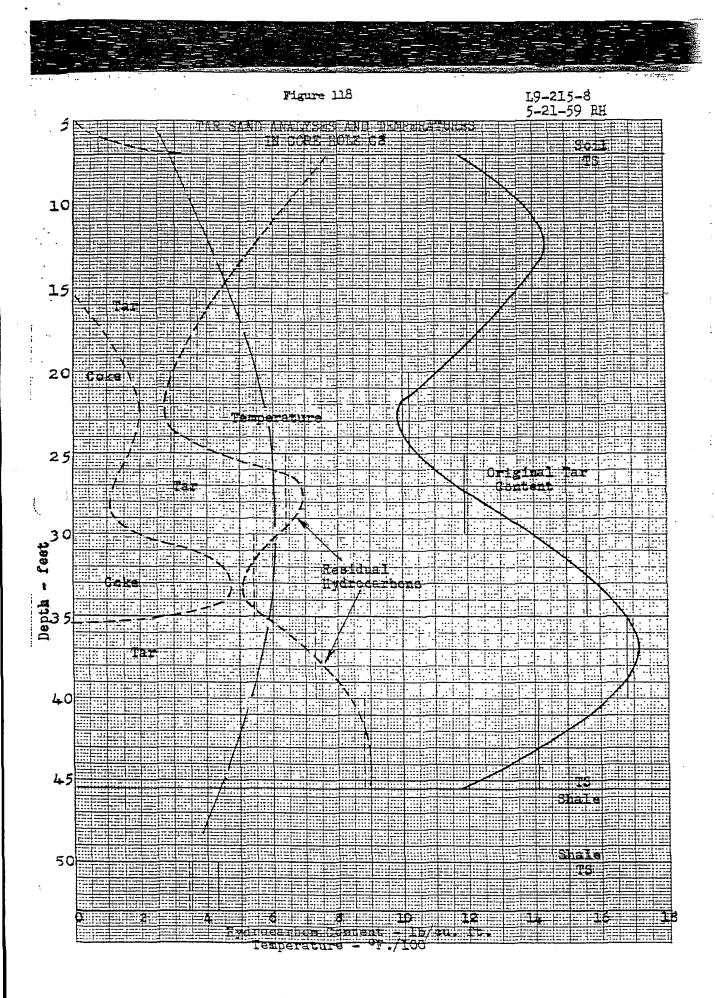


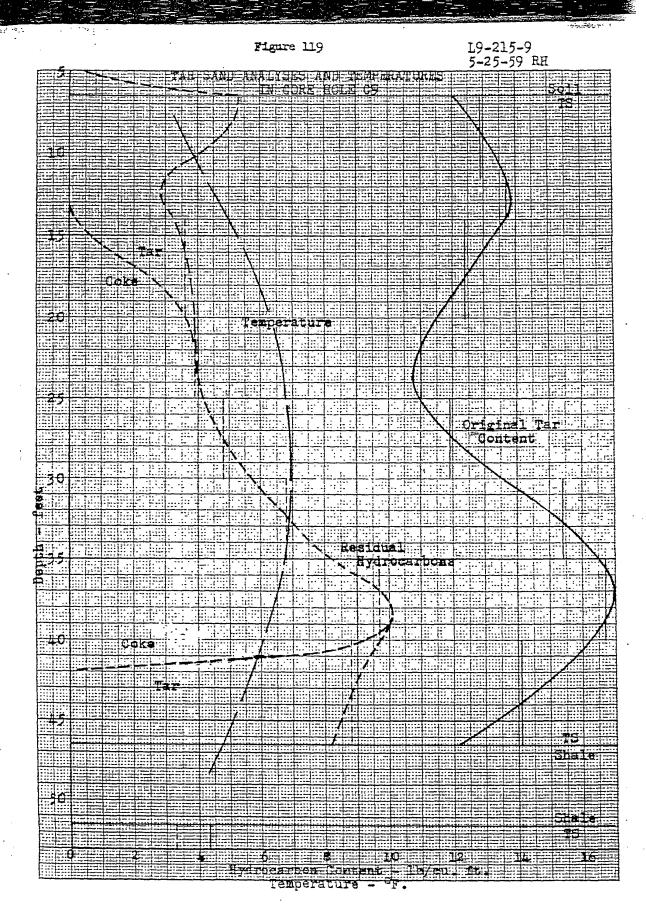


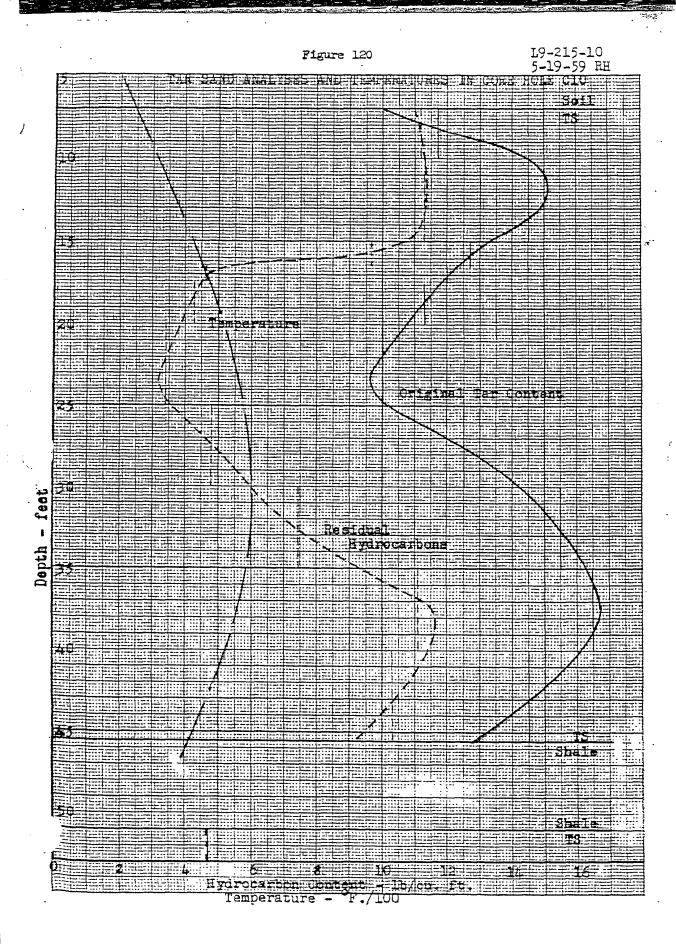


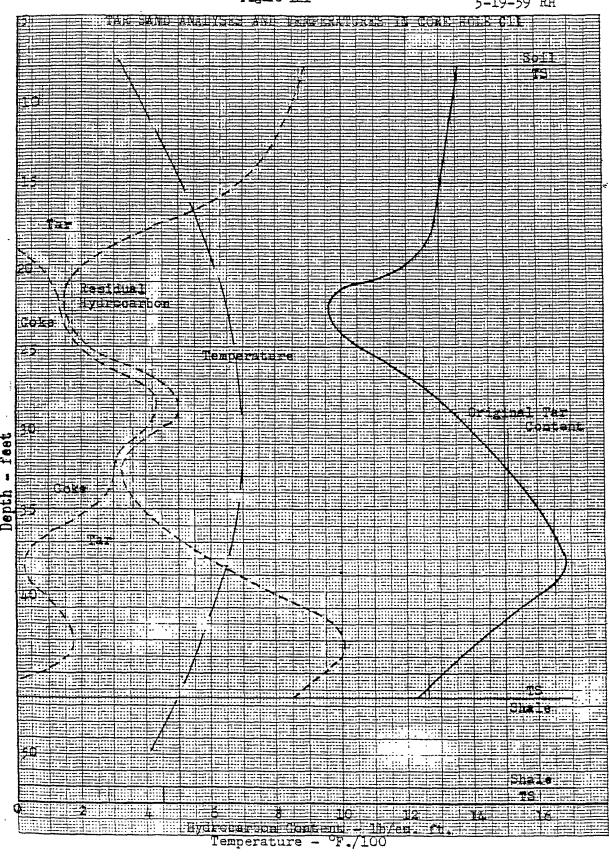




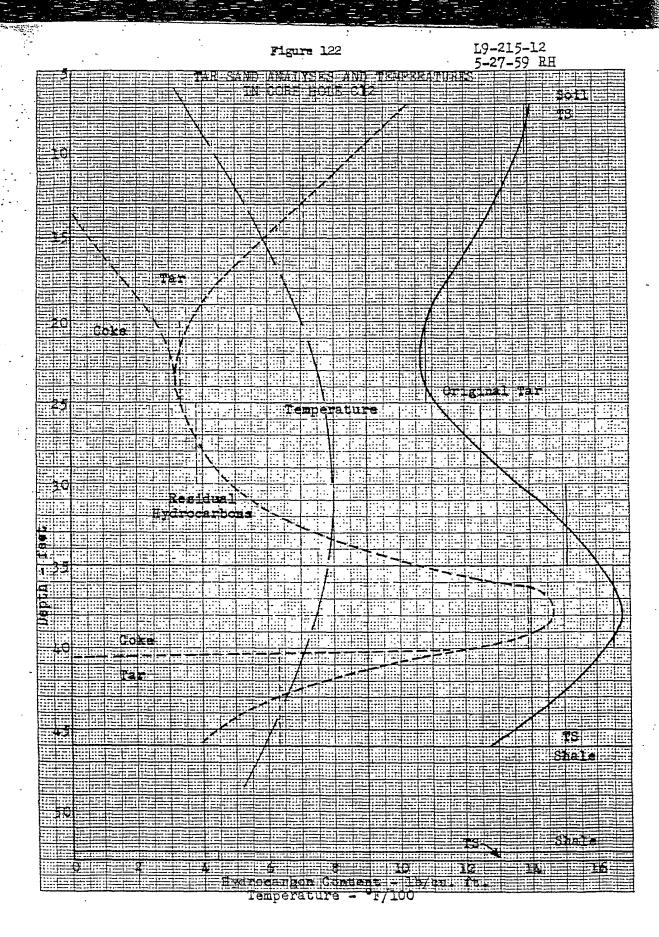


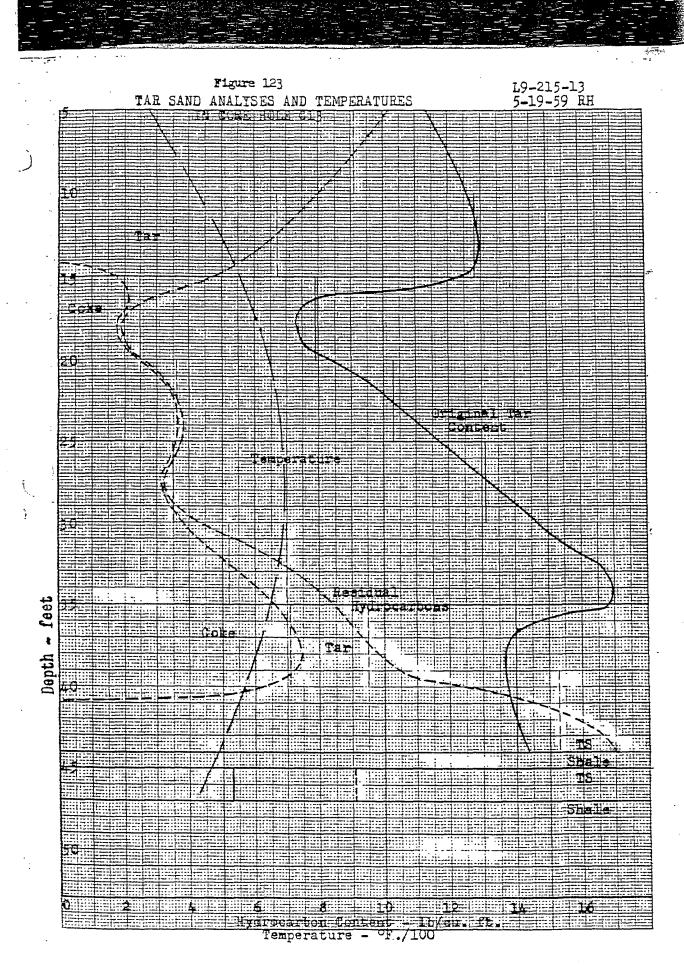


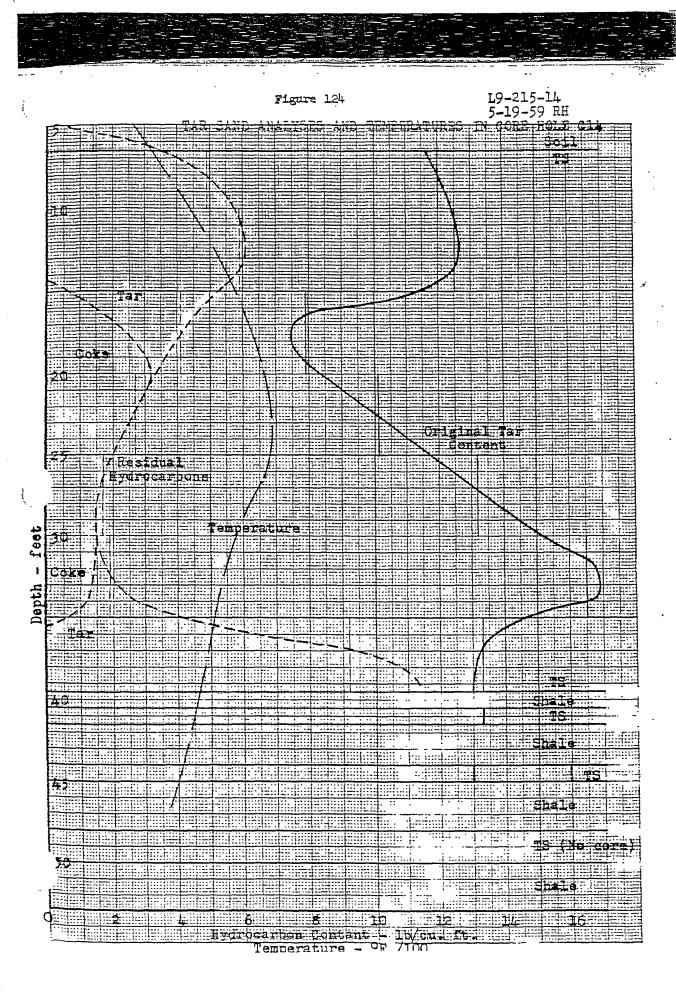


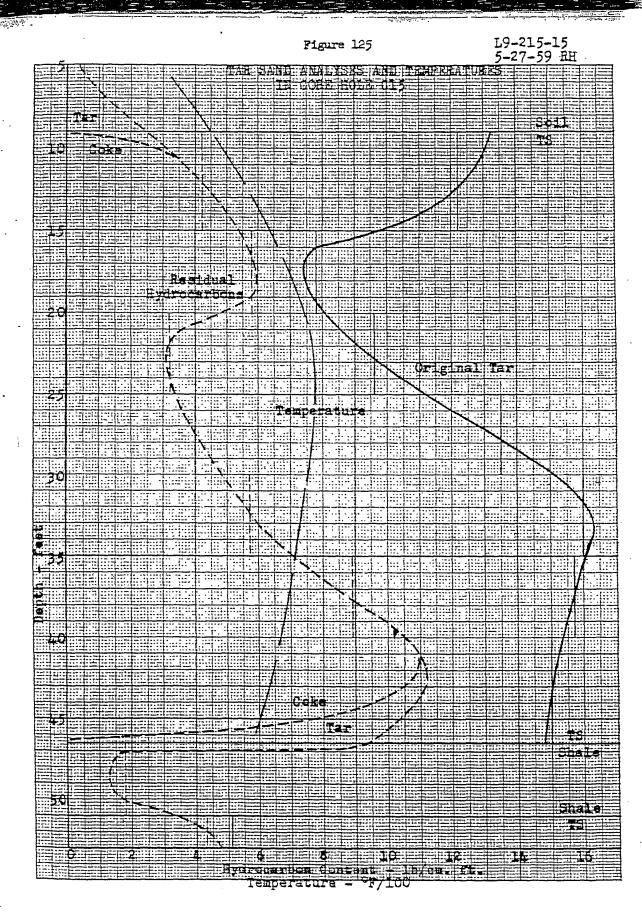


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L9-215-16 Figure 126 5-14-59 RH TAR SAND ANALYSES AND TEMPERATURES IN CORP. HOLE C16 and a state of the 

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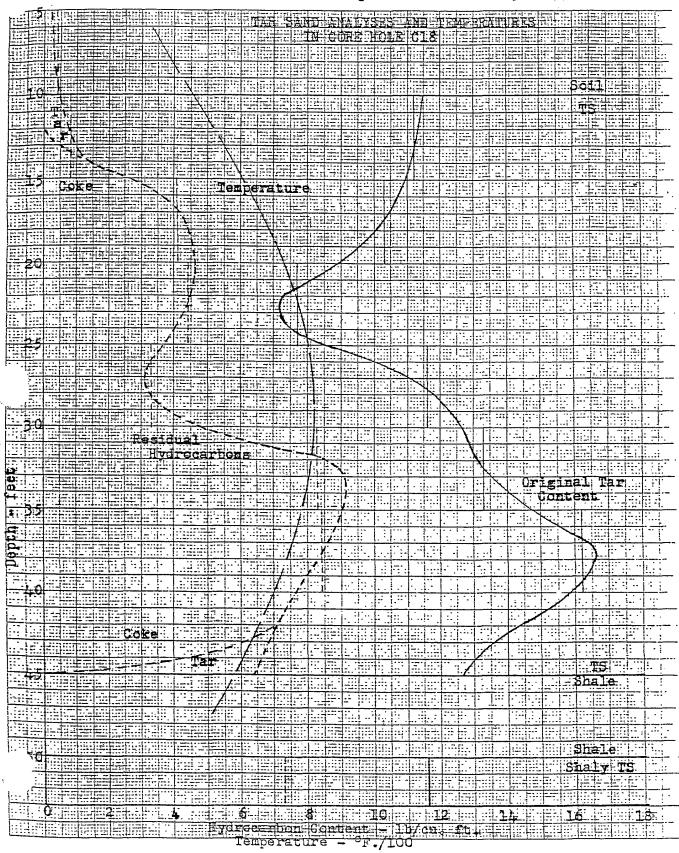
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Figure 127

L9-215-17 5-18-59 RH

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L9-215-18 Figure 128 5-18-59 RH



L9-215-19 5-18-59 RH

Figure 129

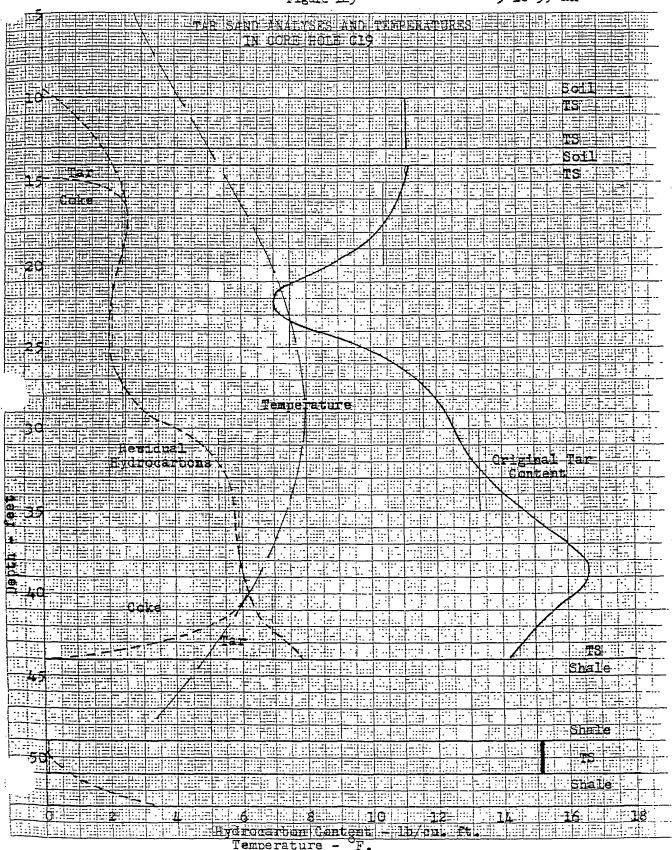
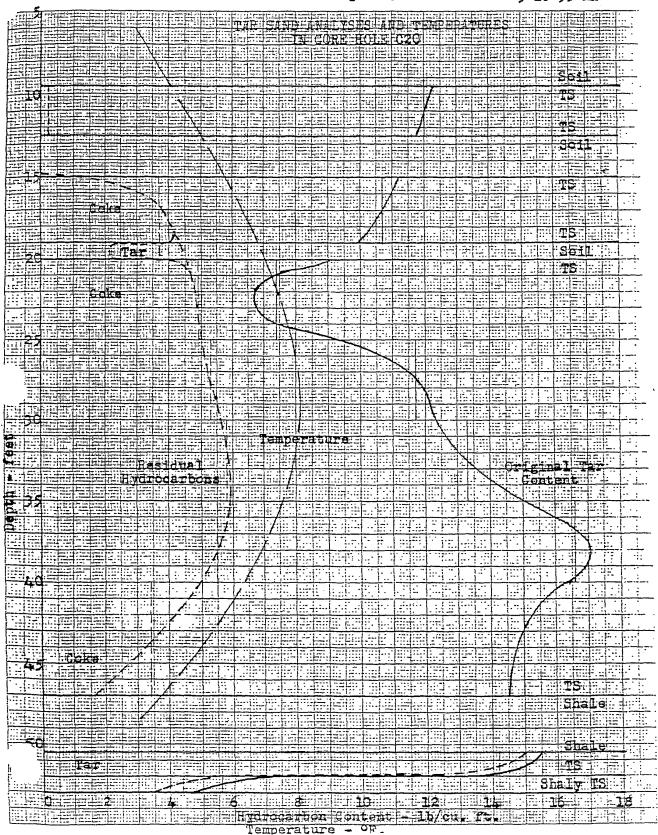


Figure 130

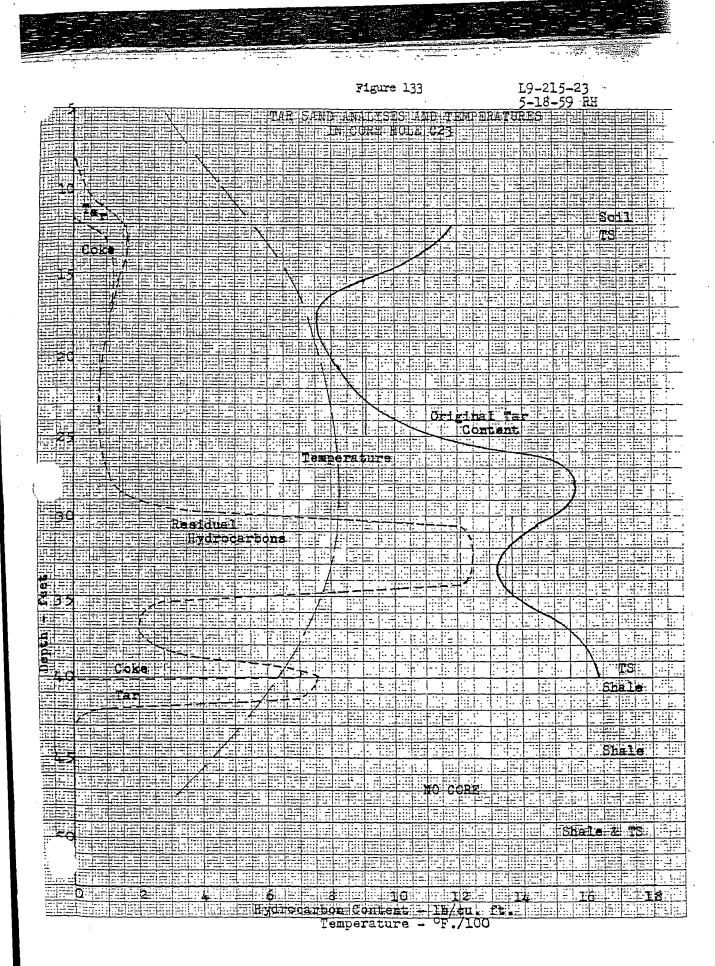
19-215-20 5-18-59 RH



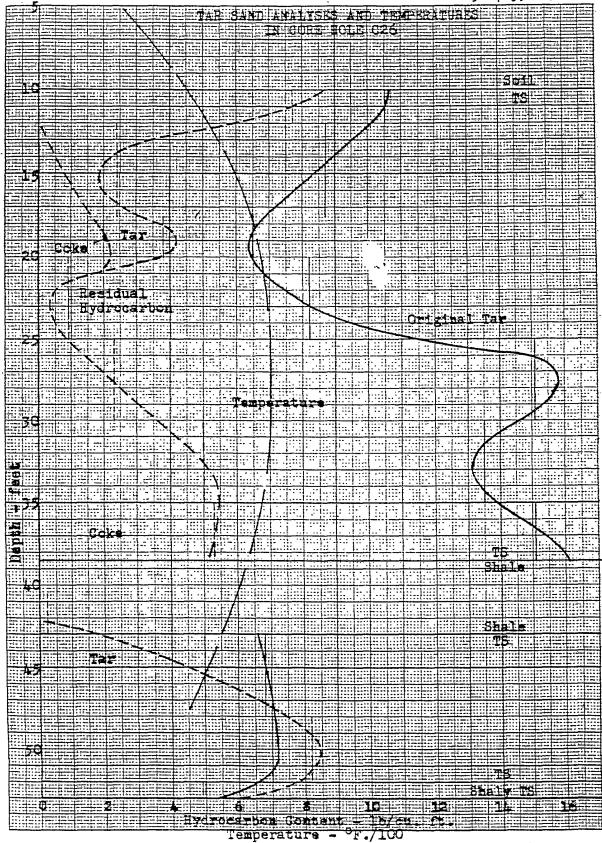
L9-215-21 Figure 131 5-18-59 THE DOLL THE SAND ANALYSES AND TEMPERATURES. H. HISTORIS SHOW ELLEN CORE HOLE C21 Coles Constitute Const Original Dar Content Residual CT 11:41 · is 4-4 :45 /12. Temperature - 1./100

F BESSTAFT

Figure 132 L9-215-22 5-18-59 RH Cola / Hydrocarbons <u>.</u> :::[[ 16.7 7.4:-:: .... 1. ... Cake -----Fireh E a Tar --. 4 7-1-1: Billion Shaly TS Temperature -



L9-215-24 5-27-59 RH Figure 134 Temperature 



L9-215-27 5-18-59 RH

Figure 136

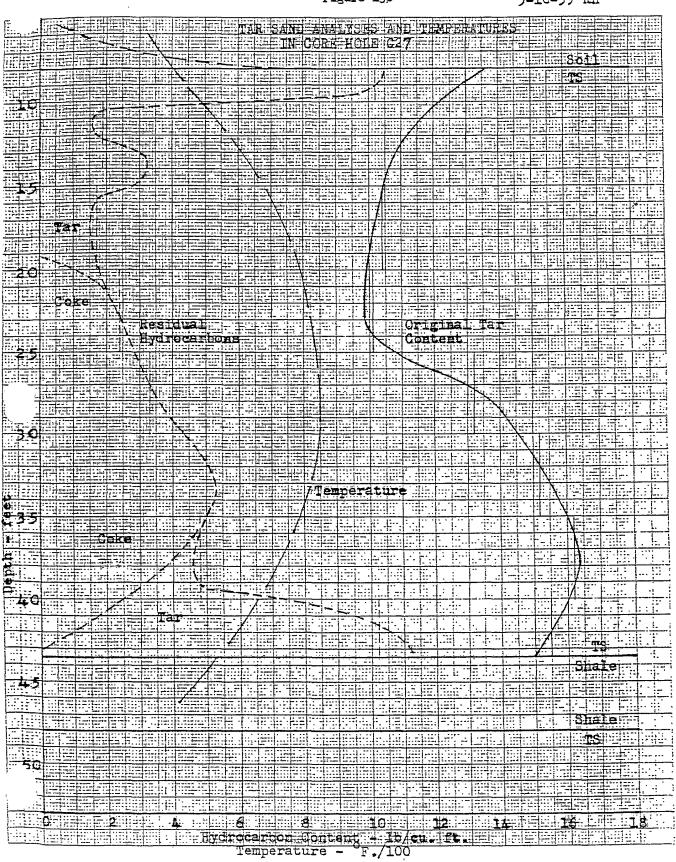


Figure 137

L9-215-28 5-18-59 RH

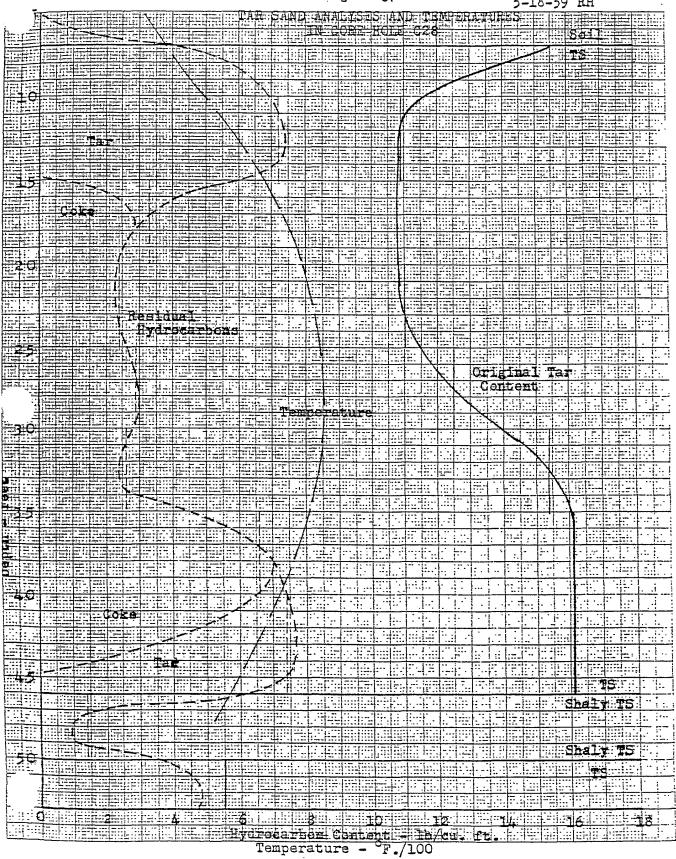
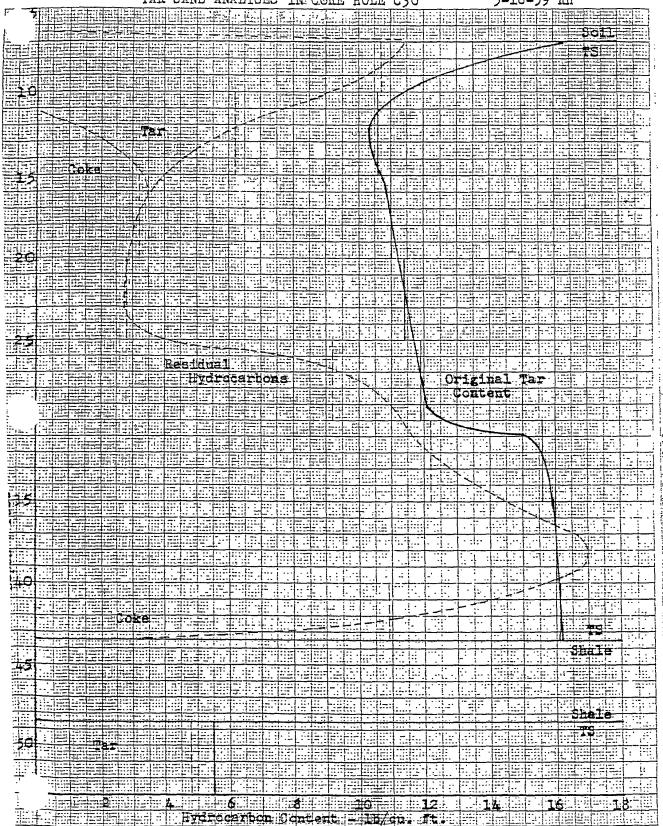


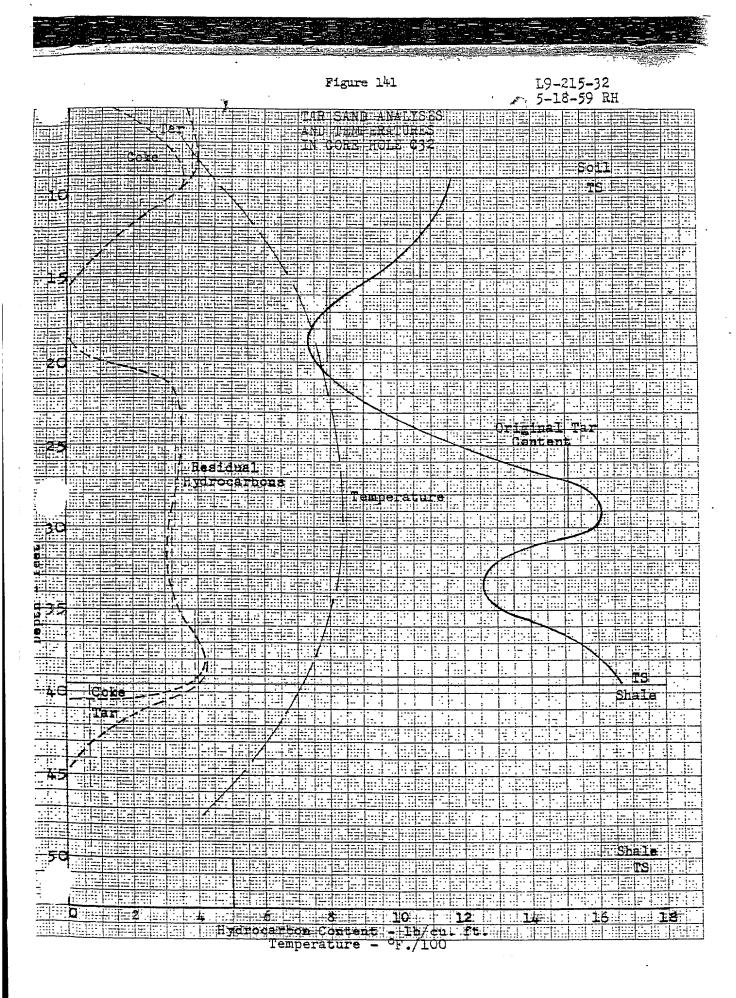
Figure 138 L9-215-29 5-18-59 RH. TAR SAND ANALYSES AND TEMPERATURES IN CORP HOLE C29 1emperature :-- Figure 139
TAR SAND ANALYSES IN CORE HOLE C30

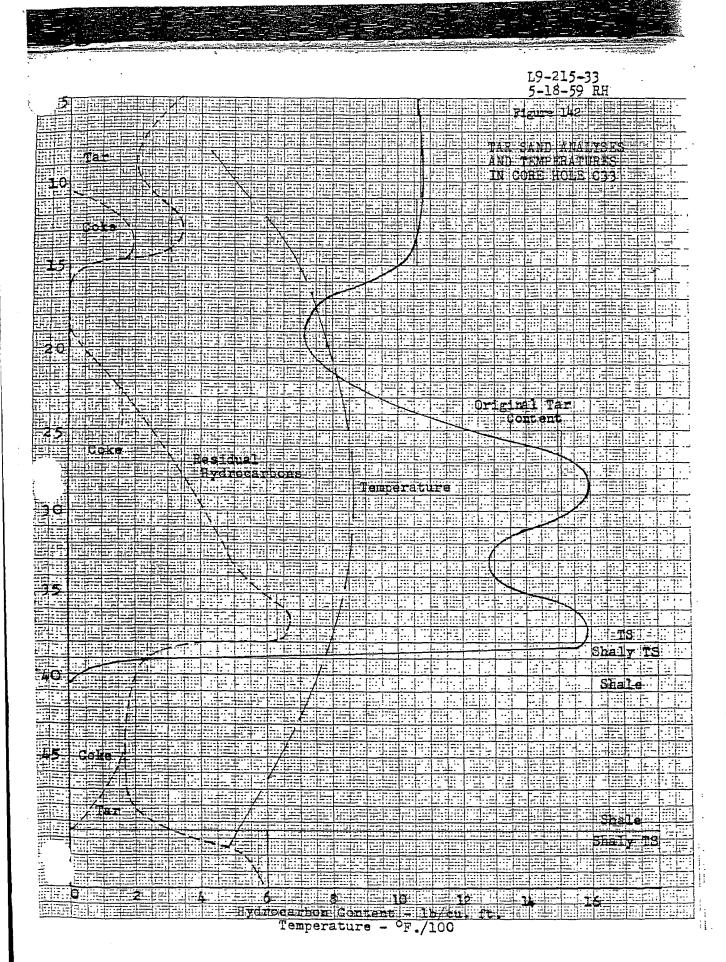
L9-215-30 5-18-59 RH



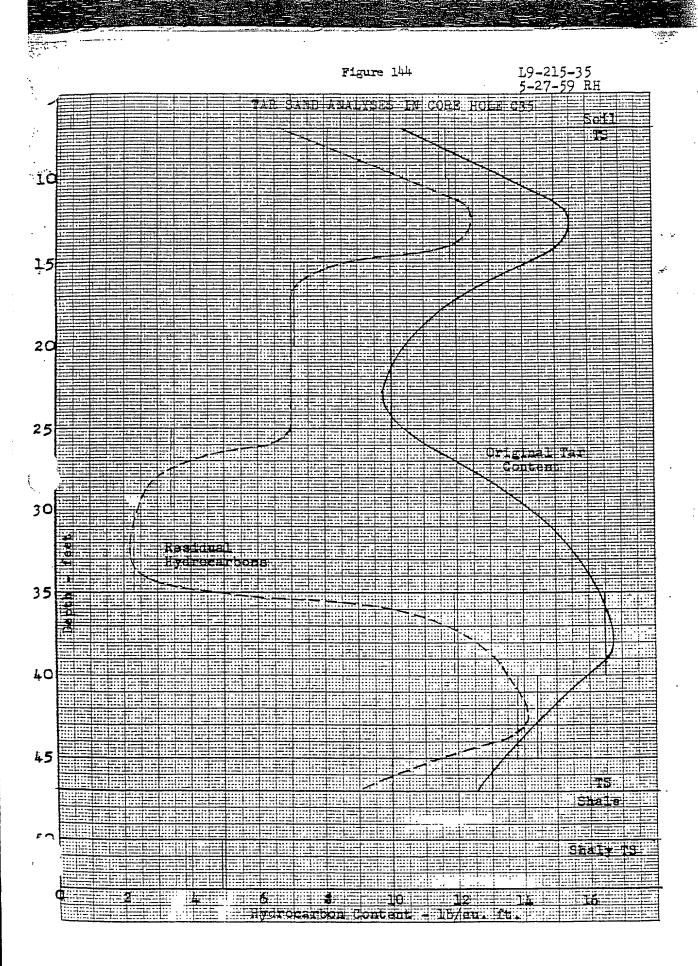
L9-215-31 5-18-59 RH

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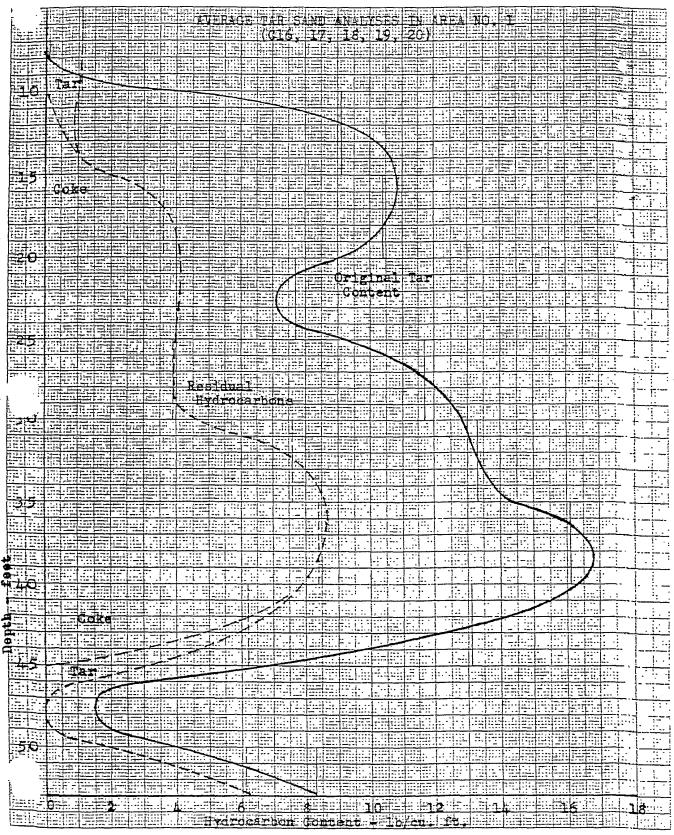


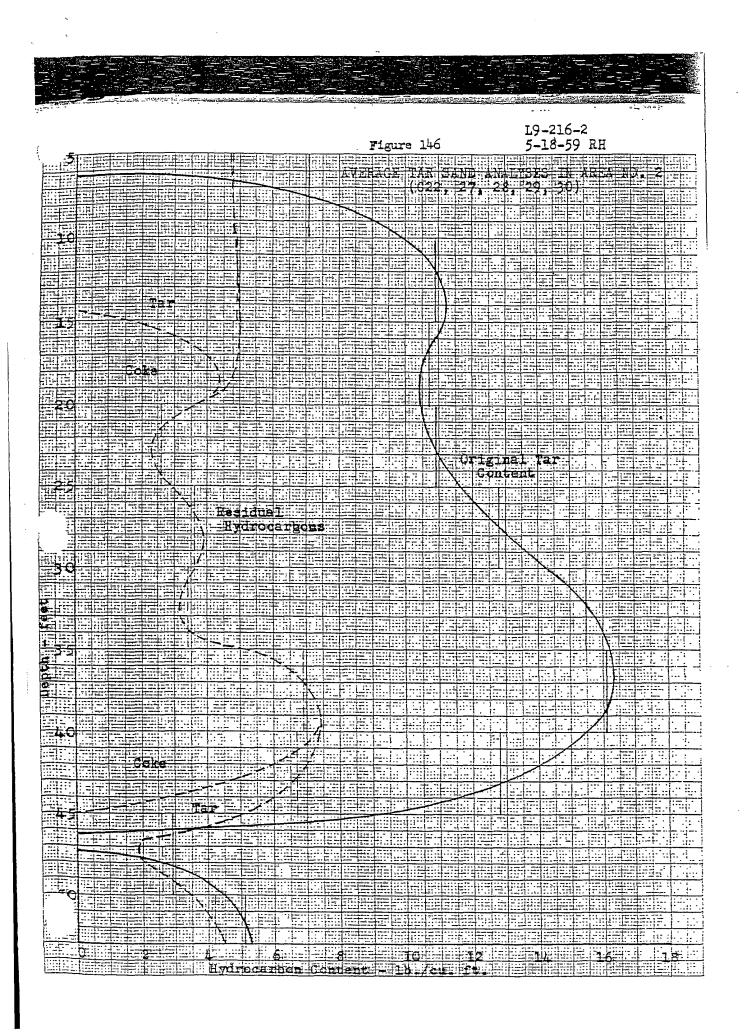


L9-215-34 5-19-59 RH Figure 143 SAND ANALYSIS TO Centent ResidueL Hydrocanbons 1.7 35 - T.-U. :=[::-[:...] : :: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* .:<del>i</del>Ξ Shale F 1 -: 1": 1": `.:;;; T. ! -::4 Shaly TS hydrecarbon Content = lb/qu. ft.



L9-216-1 Figure 145 5-18-59 RH





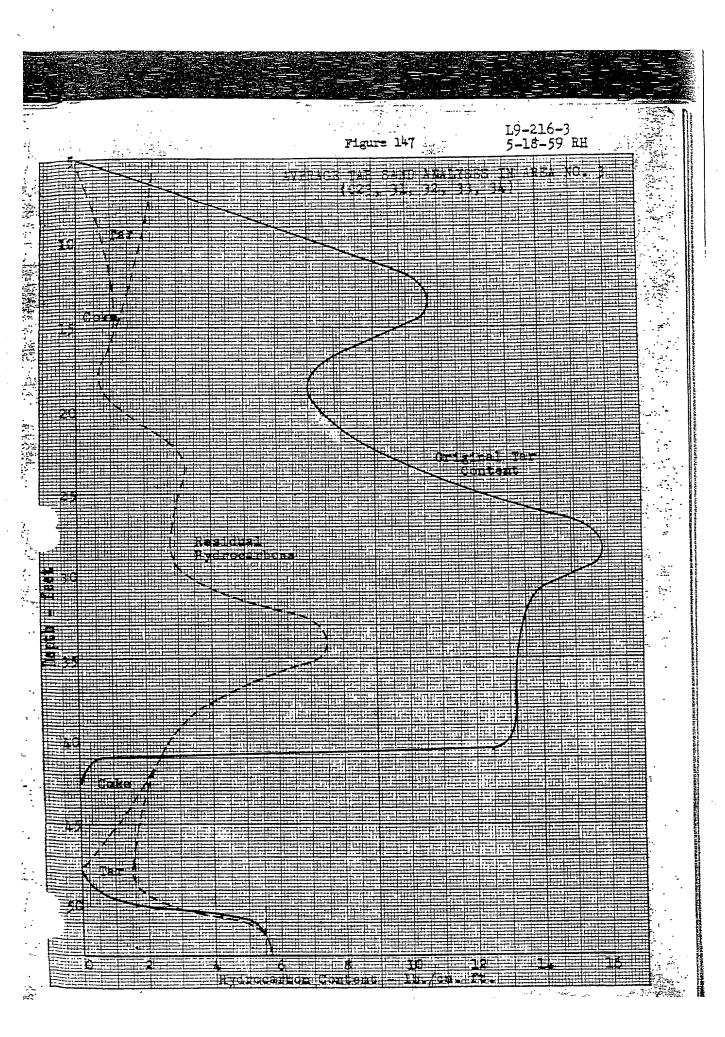
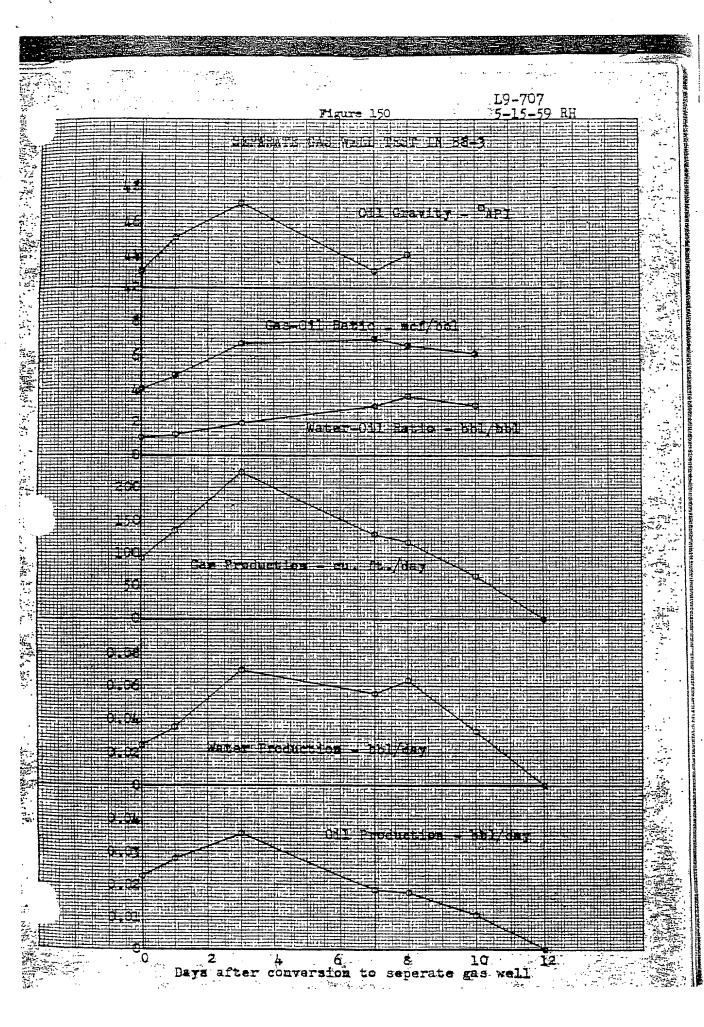
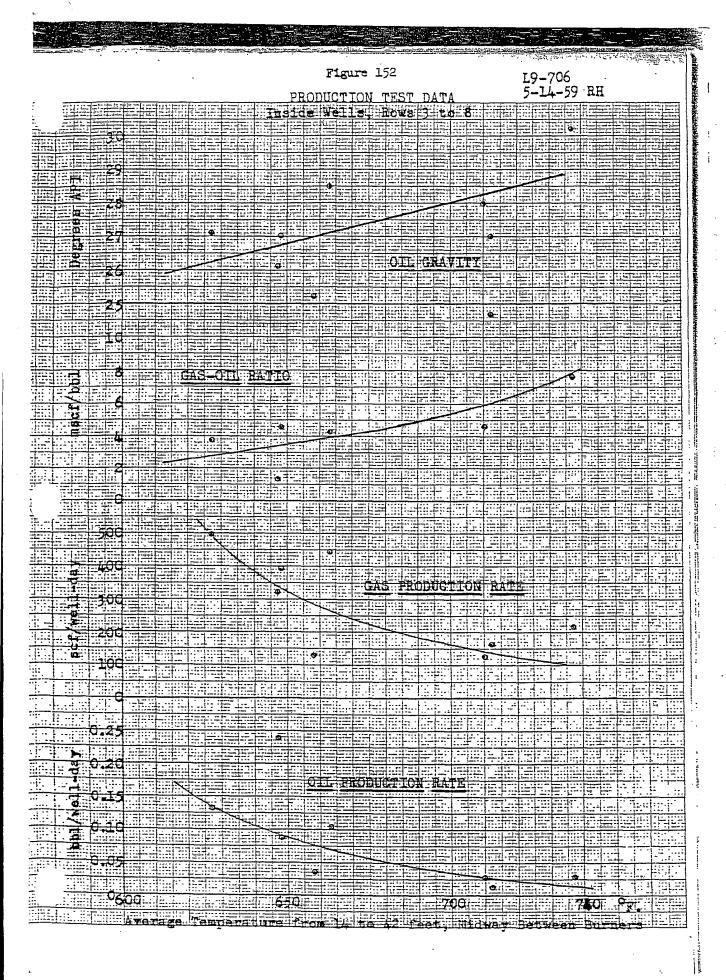
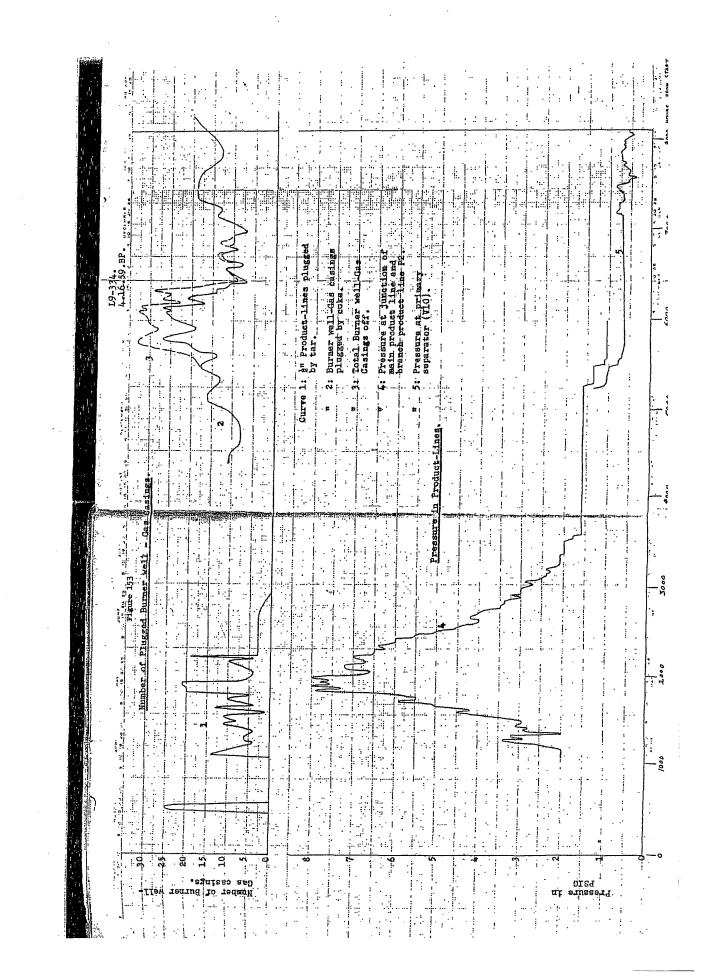


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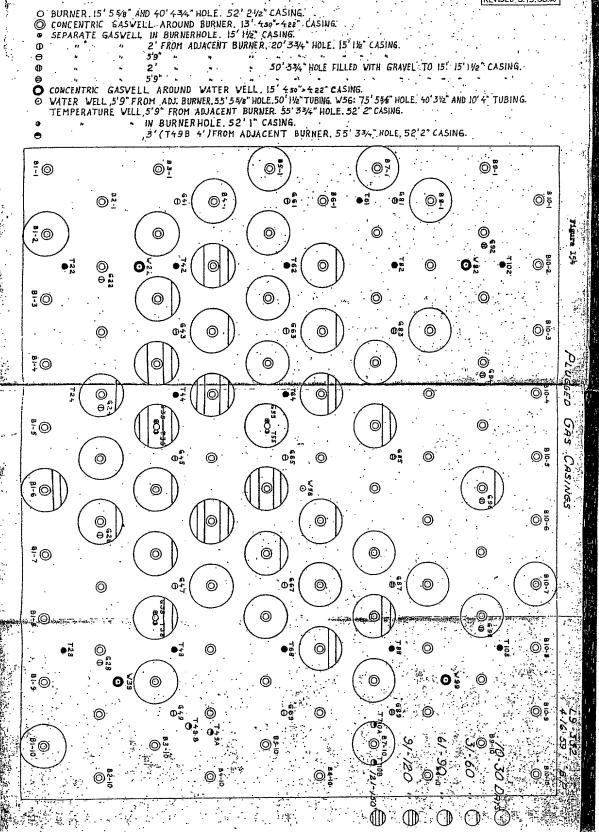






## HOLE PATTERN OF TEST L9.

L 9-101... JAN.21.1958.88 REVISED 3.15.58.89



## HOLE PATTERN OF TEST L9.

L9-101. JAN 21.1958. &P REVISED 3.15.58.AP

O BURNER. 15' 5% AND 40' 434" HOLE. 52' 2 V2" CASING.

O CONCENTRIC GASWELL AROUND BURNER. 13' 430" 422" CASING.

SEPARATE GASWELL IN BURNERHOLE. 15' 1½" CASING.

2' FROM ADJACENT BURNER. 20' 334" HOLE. 15' 1½" CASING.

5'9" 50' 334" HOLE FILLED WITH GRAVEL TO 15! 15' 1½" CASING.

5'9" 50' 334" HOLE FILLED WITH GRAVEL TO 15! 15' 1½" CASING.

CONCENTRIC GASWELL AROUND WATER VELL. 15' 450" 422" CASING.

WATER WELL, 5'9" FROM ADJ. BURNER. 55' 556" HOLE. 50' 1½" TUBING. W56: 75' 556" HOLE. 40' 3½" AND 10' 4" TUBING.

TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER. 55' 334" HOLE. 52' 2" CASING.

N BURNER HOLE. 52' 1" CASING.

3' (1498 4') FROM ADJACENT BURNER. 55' 334" HOLE. 52' 2" CASING.

